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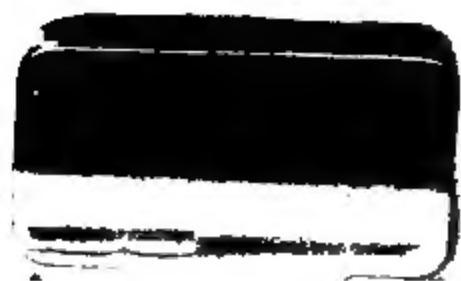
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THIRTEENTH ANNUAL REPORT

OF THE

STATE BOARD OF HEALTH

AND

VITAL STATISTICS

OF THE

Commonwealth of Pennsylvania.

VOL. II.

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*Transmitted to the Governor, December 1st, 1897.*

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WM. STANLEY RAY,  
STATE PRINTER OF PENNSYLVANIA.  
1898.



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**VOL. II.**

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**Appendices I, K, L, M, N, O, P  
and Q.**

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## APPENDIX I.

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### CORRESPONDENCE AND LEGAL OPINIONS

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#### Legal Opinions:

1. Right of Boards of Health to Control Removal of Garbage.
2. Power of Boards of Health to Employ Physicians, and Liabilities of Counties, Court of Iowa.
3. Decision of His Honor, Judge McPherson, on the Compulsory Vaccination Law.
4. Decision of the Supreme Court of the State of Minnesota Sustaining Milk and Dairy Ordinance.
5. Opinion by His Honor, Judge Ehrgood, that the Board of Health fixes the Salaries of Officials Appointed by it.

#### Correspondence:

Outbreak of Anthrax.  
Tuberculosis in Cattle.  
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## RIGHT OF BOARDS OF HEALTH TO CONTROL THE REMOVAL OF GARBAGE CONFIRMED BY STATE OF CONNECTICUT VERSUS ORR.

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Where power is conferred upon the common council of a city to regulate by ordinance the collection and removal of garbage and offal, the supreme court of errors of Connecticut holds, in the case of *State v. Orr*, decided June 15, 1896, that it has authority to pass an ordinance which provides that no person shall collect and transport such refuse matter as accumulates in the preparation of food for the table without first having obtained a permit from the board of health. But "refuse matter," as the term is thus employed, the court says, can embrace nothing which has not been refused or rejected as unsuitable for table use. It may be thus rejected because it has little or no value for human food, or because it is decayed or unwholesome. It must, in its nature, be perishable, and can include little which is not liable to become decomposed or offensive if left where it falls. In fact, the term as here used, can only extend to matter which is in effect noisome or which has been rejected by the owner as worthless. Meat trimmings, potato parings, specked apples and many other things of a like character might be thrown away in preparing table dishes, and yet properly utilized afterward for other purposes. Under such an ordinance as the one in question, whatever is not abandoned as worthless, remains property, which so long as it does not constitute a nuisance, may be sold or otherwise disposed of at the will of the owner. By the board of health contracting with a single person to collect and remove garbage from the entire city or with several persons to collect and remove it from as many different portions of the city, or contracting with respect to a part of the city or to certain buildings, leaving the removal of garbage from other places open to those who obtain from its clerk a proper permit, the court further holds will no monopoly be created by which the rights of citizenship will be infringed upon. Over any such occupation a strict watch must be kept, and the general police powers vested in the city justify the implication of a right to limit the number of those who pursue it. In a prosecution for the violation of an ordinance like the above, evidence is properly excluded that the defendant had been for many years engaged in collecting and removing garbage in the city in carts so constructed as to satisfy the requirements of the ordinance, and applied for a license to continue, but met with a refusal, the board of health having a right to limit the number engaged in this particular occupation and he having

no absolute title to a license. Even if the number of licenses issued was unreasonably small his only remedy, if any, would be to apply for a mandamus to compel the board to grant him one. He could not pursue the business because wrongfully refused a license. Nor could he justify himself by showing that the garbage he collected came from certain restaurants, with the proprietors of which he had contracts for its removal, such evidence being inadmissible.

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#### POWER OF BOARDS OF HEALTH TO EMPLOY PHYSICIANS AND LIABILITY OF COUNTIES—COURT OF IOWA.

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In an action brought by a physician to recover from a county for services rendered and supplies furnished a pauper, the supreme court of Iowa holds, *Tweedy v. Fremont County*, Oct. 29, 1896, that it must not only be shown that the patient was a pauper, but that his parents or other relatives liable therefore are unable to pay the claim. Conceding that his inability to pay is made to appear, the fact that he is a pauper and a county charge does not show that there is no relative who is liable and able to pay it. It frequently happens, continues the court, that the needs of a poor person are so urgent that relief must be furnished him at the expense of the county for lack of time to compel relatives who are liable for his support to relieve him. In such a case the person relieved is a county charge, although the county may be able to recover from his relatives the sum which it has paid on his account.

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#### DECISION OF HIS HONOR, JUDGE McPHERSON, ON THE COM- PULSORY VACCINATION LAW.

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This proceeding comes before the court upon a rule to show cause why a mandamus should not issue, the answer of the defendants and a demurrer by the plaintiff; and, as the facts are undisputed, the parties desire the controversy to be determined without further delay.

The children of the plaintiff have been pupils in the public schools of the borough until the 17th day of November, but upon that day they were refused admission because they had not been vaccinated. This refusal was authorized by the directors and is still maintained. The present proceeding asks us to declare it unlawful. The defendants support the exclusion by showing the following facts: Early in October of this year the health board of the borough, appointed in pursuance of the act of 1893, P. L. 44, requested their attention to "that part of the compulsory school law pertaining to vaccination."

This reference mistook the statute, but the mistake is not important; every one concerned has understood fully that the legislation in dispute is section 12 of the act of June 18, 1895, P. L. 203. Acting upon the communication of the board of health, the defendants passed a resolution, of which due public notice was given, "that all (pupils) who had not already been vaccinated, must be on or before the 20th of October, in accordance with the school laws." The date was afterwards extended to November 16. The plaintiff declined to have his children vaccinated, and presented them at school upon November 17 without a certificate as required by the section just referred to, setting forth that they had been successfully vaccinated or had previously had small-pox. This failure to obey the requirement of the section, and of the defendants' resolution, is the single reason why the children were denied admission.

The case requires the court to determine the true meaning of the section in dispute, and to pass upon its constitutionality. This language is as follows: "All principals or other persons in charge of schools as aforesaid are hereby required to refuse the admission of any child to the schools under their charge or supervision, except upon a certificate signed by a physician, setting forth that such child has been successfully vaccinated or that it has previously had the small pox." The phrase, "schools as aforesaid," refers to the section immediately preceding, and includes the schools there specified, namely: "any public, private, parochial, Sunday or other school in said municipalities." The plaintiff bases his principal argument upon this phrase in section 12, and insists that it compels us to construe both sections as applying to the same condition of affairs. We think, however, that this view cannot be successfully maintained. The eleventh section deals with the case of actual attack by certain infectious and contagious diseases—among them being small-pox; and provides that no child belonging to a family thus afflicted or living in the same house, shall be permitted to attend any of the schools already named; expressly requiring "all school principals, Sunday school superintendents or other persons in charge of such schools \* \* \* to exclude any and all such children \* \* \* from said schools" for a certain period. The whole section contemplates complete isolation of the infected house and family, a measure which is now everywhere admitted to be indispensable. Nevertheless, the plaintiff construes section 1 to mean that, immediately after commanding that pupils from infected houses must be absolutely excluded from schools, the Legislature proceeded to enact that if the disease is small-pox, the children of the family may come to school, provided that a physician will certify that they have been successfully vaccinated or have previously had small-pox. In our opinion, this construction must certainly be rejected. It is clear that a vaccinated child

coming from an infected house would be as likely to carry the disease to its associates as a child not vaccinated, and thus the Legislature would in one breath be taking precautions against contagion and in the next breath would probably be rendering its precautions useless.

The natural construction of the section avoids this serious difficulty. Apparently the Legislature has passed from the case of an actual attack by contagious disease and is now considering how an attack may be prevented. In the present state of medical science, small-pox is the only disease whose attack may be prevented with reasonable certainty, and, therefore, no other disease is named. It is not isolation that is now in mind, but the prevention of a particular disease, and for this purpose the Legislature regards it as desirable that vaccination among the children of school age should be nearly universal. To furnish parents with a strong motive to submit to this view, the act requires all principals or persons in charge of schools to exclude children unless a physician certifies that they have been successfully vaccinated or have previously had small-pox. This is the natural meaning of the words used, and in accordance with established rules of construction this is the meaning they must be held to bear.

The remaining question is whether this section is constitutional. It was objected to as invalid because it is not covered by the title of the act, but the objection was not strongly urged and need not be discussed. The title is "An act to provide for the more effectual protection of the public health in the several municipalities of this Commonwealth." Certainly, one of the most obvious means of protecting the public health is to provide against the introduction of diseases into the public schools, and the next step in the train of thought leads inevitably to vaccination. No other constitutional objection was brought forward at the argument, and none has since suggested itself. The subject of the act is within the police power of the Legislature, which certainly extends to the care of the public health, and upon well settled principles the sound discretion of the Legislature ordinarily determines conclusively the best agencies and the most appropriate methods of carrying out its will. The limitations of this rule do not now concern us.

Indeed, the case seems to us so plain that argument is difficult. But if argument is needed, it may be found by extending the principles of *Duffield v. Williamsport School District*, 162 Pa., 476. (The details of the case may be found in Judge Metzger's opinion, printed in the report of the State Board of Health for 1894, at pages 518 and 525.) Mr. Justice Williams there states lucidly the reasons for deciding that school directors may, in their discretion, exclude from the public schools pupils who have not been vaccinated. It was held also that whether such a resolution of exclusion is reasonable is to

be judged in the first instance by the school directors, and if this is true of the discretion of school directors, with much stronger reason must it be true of similar action by the ultimate law-making power in the State. In the Williamsport case, it was feared that small-pox was about to invade the city. One attack was reported, and the disease existed in other cities and towns in the neighborhood. In the case now before the court, counsel have agreed that small-pox is not, and for at least two months has not been, epidemic in the borough of Hummelstown, but no further fact upon the subject appears, and we do not know whether or not the defendants' resolution was passed under a reasonable apprehension of danger. Neither do we consider it material to inquire further into the matter. In our opinion, the Legislature has the undoubted power to require vaccination as a condition precedent to admission into the public schools, and if this be true, it is unimportant whether or not small-pox exists in the municipality when the pupil seeks to be admitted. The public schools are maintained out of public funds raised by taxation—a very large contribution being made directly out of the State Treasury—and it is clearly within the power of the Legislature, as representing the Commonwealth, to declare upon what terms the public bounty is to be enjoyed. The act does not undertake to compel vaccination, and, therefore, the questions which have been considered elsewhere concerning the power of the Legislature over the human body do not now arise. The right of the plaintiff's children to attend the public schools is not complete until they have complied with the condition which the Legislature has seen fit to impose. Without the certificate of a physician, as required by the statute, they cannot be admitted.

It was also argued that section 12 of the act of 1895 is in conflict with the compulsory education act passed in the same year (P. L. 72). To this position, at least three answers are conceivable: First, as the ages of the plaintiff's children are not averred and do not otherwise appear, the court does not know that they are between the ages of eight and thirteen years and, therefore, as the compulsory education act only applies to children between these ages, the question suggested does not arise. Second. If the compulsory education act and the section under consideration are in irreconcilable conflict, the former statute must give way, because it was passed on May 16, while the public health act was approved on the 18th day of June and being the later statute, must be enforced. Third. The compulsory education act provides that children may be excused from attendance if the school board of the district receives satisfactory evidence that attendance is prevented by mental or physical or other urgent reasons. It might, therefore, be held that if a child was not vaccinated and was therefore refused admission it was prevented from attendance by a physical reason, and if to this suggestion the reply should be made

that the parent would thus be able to evade the compulsory education law by refusing to vaccinate his children, it might be rejoined that if such evasion became extensive the Legislature would probably be forced to deal with it by providing for compulsory vaccination, and the question would then fairly arise whether the Legislature possessed the constitutional power to pass such a statute. Of these three answers, we accept the first as sufficient and express no opinion concerning the other two.

So far as we know, the question under consideration has not been heretofore decided in this Commonwealth, although the reasoning of Duffield's case points strongly to the conclusion we have reached. In the State of California it arose several years ago and was also decided in favor of the legislative power. *Abeel v. Clark*, 84 Cal., 226. Maine and Massachusetts have statutes similar to the section under consideration. See Revised Statutes of Maine, Chapter II, sec. 87; Public Statutes of Massachusetts, Chapter 47, sec. 9.

The petition for a mandamus is dismissed at the cost of the plaintiff.

JOHN B. McPHERSON,  
A. L. J.

Filed November 28, 1896.  
Certified.

JOHN P. MELICK,  
Prothonotary.

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DECISION OF THE SUPREME COURT, STATE OF MINNESOTA,  
SUSTAINING THE MILK AND DAIRY ORDINANCE OF  
THE CITY OF MINNEAPOLIS, PROVIDING FOR INSPEC-  
TION OF DAIRY HERDS OUTSIDE OF THE CITY AND THE  
USE OF THE TUBERCULIN TEST.

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Provisions of an Ordinance of the City of Minneapolis Considered.

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Certain provisions of an ordinance of the city of Minneapolis to license and regulate the sale of milk in the city, considered and held to be authorized by general laws 1895, Ch. 203, entitled "An act relating to the inspection of milk and of dairies and dairy herds and to provide for the licensing and regulation of the sale of milk in cities."



**Ordinance Held—Not Extra-territorial.**

It is competent for a city council by ordinance to require that an applicant for a license to sell milk within the city shall consent that the dairy herd from which he obtained his milk may be inspected by the commissioners of health of the city, although such dairy herd is kept outside the city limits.

**“Tuberculin Test” Held—Not Unreasonable.**

The requirement that he shall consent, as a condition precedent to obtaining such license, that the animals from which he obtains the milk shall be subjected to the “tuberculin test” is not unreasonable.

**Whether City License is Substitutional or Supplemental to the State License. Queare.**

Whether a license from a city under an ordinance passed pursuant to laws 1895, Ch. 203, is, as to the sale of milk in such city, a substitute for the license from the state dairy commissioner provided for in laws 1889, Ch. 247 or whether it is merely supplemental and additional, is not decided.

In either view the ordinance is authorized by the act of 1895.

Order affirmed.

Appeal by defendant from an order of the municipal court of Minneapolis, Kerr, J., denying a motion for a new trial. Affirmed.

F. F. Davis for appellant.

David F. Simpson and M. D. Purdy for respondent.

Mitchell, J. Laws 1887, Ch. 140 as amended by laws 1889, Ch. 247, entitled “An act to prevent deception in the sale ‘of dairy products and to preserve the public health, etc.,’ prohibited, among other things, the keeping of cows for the production of milk for the market in a crowded or unhealthy condition; the sale of impure or unwholesome milk and provided for the appointment of a dairy commissioner and assistant commissioner, experts and chemists who should have access to all places used in the manufacture and sale of dairy products. Sections 13 and 14 of the amendatory act (Gen. St. 1894, sections 7004 and 7005) provided in substance that every one who sold or offered for sale milk in any city or town of 2,000 inhabitants or more should obtain a license from the dairy commissioners.

The legislature subsequently enacted general laws 1895, Ch. 203, providing that the city council of any city may by ordinance provide for the inspection of milk and of dairy herds kept for the production of milk within its limits and issue licenses for the sale of milk within its limits and regulate the same and may authorize and empower the board of health to enforce all laws and ordinances relating to the production and sale of milk, for sale or consumption, within such city and to appoint such inspectors, etc., as are necessary for the proper

enforcement of such laws and ordinances and such inspectors, etc., shall be possessed of such necessary powers within the limits of such city as shall be prescribed by ordinance, but no such ordinance shall conflict with any law of this state. The act further provided that nothing therein contained should affect or interfere with any of the powers and duties conferred on the state dairy commissioner by any law of this state.

In March, 1896, the city council of Minneapolis passed an ordinance to provide for the inspection of milk dairies and dairy herds, and to regulate the sale of milk in the city of Minneapolis. This ordinance is set out in full in appellant's brief as Exhibit C. Its provisions, as far as now material, may be summarized as follows:

Any person desiring a license to sell milk in the city is required to file with the commissioner of health of the city an application thereof, stating among other things the location or place from which the applicant obtains the milk, and, if he is not a producer of milk, then the name of the person from whom he obtains his milk, and also requesting the city to inspect his dairy and dairy herd, or the dairy or dairy herd of the person from whom he obtains his milk, for the purpose of carrying out the provisions of the ordinance—a refusal of the applicant to request such inspection to result in his failure to obtain a license.

Upon the filing of such application the commissioner of health is to inspect the dairy and dairy herd of the applicant or those of the person from whom he obtains his milk, and to cause an examination by the veterinarian of the department of health, to be made of every animal producing milk for sale within the city, belonging to the applicant, or the persons from whom he obtains his milk, "and for the purpose of detecting tuberculosis or other contagious or infectious disease, the veterinarian is authorized in making such inspection to use what is known as the tuberculin test as a diagnostic agency for the detection of tuberculosis in such animal." The ordinance further provides for the tagging of each animal thus examined and inspected so as to afford a permanent record of the result as regards the presence or absence of an infectious or contagious disease; that when the applicant, or the person from whom he obtains his milk shall have removed from his dairy herd all cows and animals which may be found to be affected with any contagious disease so that they are no longer used for the production of milk, for sale or consumption within the city, then the commissioner of health shall make a report to the city council concerning such applicant and the condition of the dairy and dairy herd from which he obtains his milk. After these reports are submitted, the city council is, after proper examination, to determine what applicants are entitled to a license to sell milk in the city. It then becomes the duty of the commissioner of health to issue licenses to those determined by the city council to be entitled thereto. The ordi-



nance also provides that no person shall sell, deal in or dispose of any milk within the city without first having obtained a license so to do in the manner above provided, and imposes a penalty for the violation of any of the provisions of the ordinance.

The defendant having been convicted of selling milk in the city without first having obtained a license as provided in the ordinance, appealed to this court.

I. The first and second objections urged against this ordinance are virtually one and may be considered together. The objection is that the provisions of the ordinance are not within the limits prescribed for it by the statute for the reason that it is attempted to make its operation extra-territorial in that it provides for the inspection of dairies and dairy herds outside the city limits. There is no merit in this point. The manifest purpose of the statute under which this ordinance was passed was to enable the city council to adopt such reasonable police regulations as would prevent the sale of unwholesome milk within the city and not merely to prevent the keeping of unhealthy dairy herds within the city limits. It is a matter of common knowledge that much of the milk sold in a city is produced in dairies situated outside the city limits. Any police regulations that did not provide means for insuring the wholesomeness of milk thus brought into the city for sale and consumption would furnish very inadequate protection to the lives and health of the citizens. It is also a matter of common knowledge as well as of proof in this case that the wholesomeness of milk cannot always be determined by an examination of the milk itself. To determine whether it does or does not contain the germs of any contagious or infectious disease it is necessary to inspect the animals which produce it. The inspection of dairies or dairy herds outside the city limits provided for by this ordinance applies only to those whose milk product it is proposed to sell in the city. The provisions of the ordinance in that regard go only so far as it is reasonably necessary to prevent the milk of diseased cows being sold within the city. This inspection is wholly voluntary on part of the owner of the dairy or dairy herd. If he does not choose to submit to such inspection the result merely is that he or the one to whom he furnishes milk cannot obtain a license to sell milk within the city. The ordinance has no extra-territorial operation and there has been no attempt to give it any such effect. The only subject upon which it operates is the sale of milk within the city.

II. The objection is urged that the ordinance is oppressive and unreasonable in that it requires every dairy herd whose milk is desired to be sold within the city to be subject to the "tuberculin test" which, it is claimed, is uncertain in its results and deleterious to the health of animals. At the present stage of scientific research on this subject it may be a debatable question whether this test has been fully proven

or how far it is as yet merely experimental. There is ample evidence in this case that it is now the generally accepted theory that the presence of consumption or tuberculosis in animals can be detected by this test, also that this is what is called a "germ disease," which may be contracted by eating the flesh or drinking the milk of a tuberculous animal. Upon the evidence we could not say that this provision of the ordinance is oppressive or that it has not a reasonable tendency to prevent the sale of unwholesome milk within the city. There are some other objections urged against the reasonableness of the ordinance, but none of them are of sufficient merit to require special notice.

III. It is further urged that the ordinance is repugnant to general laws 1887, Ch. 140, as amended by laws 1889, Ch. 247. The point of this objection is that the act referred to entrusts to the state dairy commissioner the matter of inspecting dairies and dairy herds and issuing licenses to sell milk in cities or towns of 2,000 inhabitants while under the ordinance in question these powers, so far as they relate to dairies and dairy herds whose milk it is proposed to be sold in the city, are assumed to be exercised by the city council, whereas the act of 1895 provides that no ordinance shall conflict with any law of the state and that nothing in that act shall affect or interfere with any of the powers and duties conferred on the state dairy commissioner by any law of the state.

It must be presumed that the legislature intended to do something when it enacted the law of 1895. But if counsel's contention is correct then the legislature in the first part of that act conferred certain powers upon the cities and then in the latter part of the same act took these powers all back.

It is clear that the legislature intended to confer on city councils the very powers which have been exercised by the enactment of this ordinance. Whether, when a city has exercised these powers it is, as to the sale of milk in such city, a substitute for the license from the dairy commissioner provided for in the act of 1887 as amended in 1889 or whether it is merely supplemental and additional, is a question not involved in this case, for in either view the provisions of the ordinance under consideration are authorized by the act of 1895.

Order affirmed,

MITCHELL, J.

**OPINION THAT THE BOARD OF HEALTH AND NOT COUNCILS FIXES THE SALARIES OF OFFICIALS APPOINTED BY THE FORMER BODY.**

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Before going to Pottsville, Judge Ehrgood handed down the following opinions. In the two cases of Messrs. Hersh and Snyder, late of the board of health, against the city for back salary, the city loses both cases and is mulcted in \$201.80 besides some \$25 costs. In the Weaver lunacy case, the county suffers a similar fate. The opinions follow:

A. C. Hersh, secretary of board of health, v. City of Lebanon.

In court of Common pleas. Case stated.

By the Court:—The defendant is a city of the third class. The plaintiff is the secretary of board of health of the defendant city and, as such, claims four months' salary at \$25 per month, liability for the payment of which the defendant denies.

The act of May 23, 1889, article XI, section 3, P. L. 306, provides that the board of health "shall elect a secretary, not of their body, who shall keep the minutes of their proceedings and perform such other duties as may be directed by the board, and a health officer who shall execute the orders of the board and for that purpose the said health officer shall have and exercise the powers and authority of a policeman of the city." "The secretary and health officer shall receive such salary as may be fixed by the board and shall hold their office during the pleasure of the board."

The board of health of the city of Lebanon is the creation of city councils, but that gives city councils no voice in the election of the secretary and health officer in the tenure of their office, nor in fixing the compensation to to be received by them. These officers are to be elected by the board hold their respective offices during the pleasure of the board and shall receive such salaries as shall be fixed by the board. The language of the act of assembly is too plain for any other consideration. The failure of city councils to make a sufficient appropriation to pay these officers their salaries is no defense to this action. And now, May 25, 1897, judgment is directed to be entered in favor of the plaintiff and against the defendant for the sum of \$100.90.

A. W. EHRGOOD, P. J.

A. M. Snyder, health officer, v. City of Lebanon.

## CORRESPONDENCE.

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### ANTHRAX.

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August 5, 1897.

Dr. Benj. Lee, Philadelphia, Pa:

Dear Doctor: You will receive a specimen of supposed "anthrax" sent you by Dr. A. F. B., of Brookville. The specimen is from a case of Dr. B.'s, at Falls Creek, Jefferson county. The doctor tells me he has two cases of malignant pustule, now convalescent; that he had a death yesterday from the systemic or splenic fever. Took sick since Sunday. He also says he had another case die before he could secure consultation and had no diagnosis, and now thinks case was the same, splenic fever. He also tells me that twenty-three head of cattle have died recently suggestive of same. Falls Creek is nine miles from Reynoldsville. If I can be of any service to you, command me. You no doubt remember Dr. F. is at DuBois, about two miles from Falls Creek. The tannery at Falls Creek secures or handles some foreign hides. I understand that these supposed cases of anthrax are among the laborers of said tannery. Dr. B. tells me that he could not secure any of the fluid from pustule, that is, from the vesicles around the pustule, as the case had passed that stage, but thinks the anthrax bacilli will be found in the specimen Dr. B. sends you.

Yours truly,

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August 9, 1897.

Dr. A. F. B., County Medical Inspector, Brookville, Pa.:

Visit Falls Creek and investigate disease thought to be anthrax. Our bacteriologist does not find anthrax spores.

(Signed.)

BENJAMIN LEE.

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August 12, 1897.

Dr. A. F. B., County Medical Inspector, Brookville, Pa.:

Dear Doctor: Your full and able report of your inspection with reference to fatalities at Falls Creek, supposed to be infection from a tannery is received. In the meantime, I have myself had a personal interview with Mr. J. L. Jones, chairman of the Falls Creek Stock Protective Association, and have communicated with Professor Leon-

ard Pearson, the State Veterinarian. I doubt very much whether arsenical poisoning could result in the conditions which you describe, although there is a bare possibility that it may be responsible for the death of the cattle. I propose to refer your report to Professor Pearson for his opinion. I trust that his department will make a careful investigation into the pathological conditions and symptoms of the cows which have been infected.

(Signed.)

Yours very truly,

BENJAMIN LEE,  
Secretary.

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Harrisburg, Pa., August 14, 1897.

Dr. Benjamin Lee, 1532 Pine St., Philadelphia:

Dear Doctor: I received your favor of the 12th instant, in which you enclose report of your county medical inspector for Jefferson county on the disease which has destroyed cattle and has killed several workmen at Falls Creek. I have had some correspondence with a veterinarian at that point and have endeavored to obtain material for examination and have been promised some, but it has not yet arrived. From his description of the symptoms and the post mortem, I am strongly inclined to believe that the cattle died from anthrax and so reported to the veterinarian about a week ago. Outbreaks of anthrax in the neighborhood of tanneries have been reported among cattle upon numerous occasions, and it is the opinion of Dr. Neale, of the Delaware Agricultural Experiment Station that the very extensive outbreak of anthrax which occurred in that state three or four years ago came from a tannery near Wilmington and the New Jersey authorities believe that the outbreak in the neighborhood of Salem resulted from the carcasses that floated across Delaware bay during the prevalence of the disease in Delaware.

I return to you herewith the report of the medical inspector, which is very interesting. If I am able to gather any more information in reference to these cases I shall notify you.

Yours truly,

LEONARD PEARSON.

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August 19, 1897.

Benjamin Lee, Esq., Secretary State Board of Health, Philadelphia, Penna.:

Dear Sir: Your telegram of the 16th, to superintendent of our Falls Creek tannery, has been referred to this office.

I beg to inform you that there was received at the Falls Creek tan-

nery about June 1, 1897, 12,840 China hides, which were shipped from the Asiatic port Shanghai, by the sailing vessel "Collingrove."

Our commission agents purchased a large invoice of China hides; the same were divided between Falls Creek tannery, Ralston tannery, Ralston, Pa., which is operated by this company, and Castorland tannery, in New York State. While it is supposed that we had some cases of anthrax, at the Falls Creek tannery, there have been no cases of anthrax, or other sickness, in the Ralston or Castorland tannery, where hides of the same cargo were worked. The hides of cargo above noted, shipped to Falls Creek tannery, have all been worked and are now in the liquors.

I shall be pleased to furnish you any further information in reference to the matter.

Yours truly,

\_\_\_\_\_,  
President.

\_\_\_\_\_  
Washington, D. C., August 21, 1897.

Benjamin Lee, M. D., Secretary State Board of Health, Philadelphia, Pa.:

Sir: I have to acknowledge the receipt of your telegram of the 20th instant, stating that the State Veterinary Surgeon considers the disease at Falls Creek anthrax, that the hides were imported from Shanghai, and that a cable had better go from this office. In reply, I have to state that your telegram has been referred to the Department of Agriculture, which department prepared the regulations relating to the disinfection of hides, intended to keep out anthrax, the latter being a disease chiefly of domestic animals.

At foreign ports where cholera, small-pox, yellow fever or typhus fever prevails in epidemic form special disinfection of hides is required by the quarantine regulations prepared by this bureau, but the hides from Shanghai were imported under the disinfection regulations prepared by the Department of Agriculture.

Respectfully yours,

WALTER WYMAN,  
Supervising Surgeon General, M. H. S.

\_\_\_\_\_  
September 22, 1897.

Dr. Lee, Philadelphia, Pa.:

Dear Sir: There have been several cows died in Reynoldsville of what is claimed to be anthrax. It was reported that several people and twenty-five cows died of the same disease at Falls Creek, six and

one-half miles from here, and it is thought the disease has been carried in the water of the creek, which flows through both towns, and the offal from a tannery at both towns runs into the creek. Have you any instructions?

Yours truly,

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Secretary.

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September 25, 1897.

Mr. W., Secretary Board of Health of West Reynoldsville, Reynoldsville P. O., Pa.:

Dear Sir: Replying to your favor the 22d inst., I have to say that I have requested Professor Leonard Pearson to investigate this outbreak.

Yours very truly,

BENJAMIN LEE, M. D.,  
Secretary.

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Treasury Department,  
Office of the Secretary,

Washington, D. C., October 4, 1897.

Dr. Benjamin Lee, Secretary of State Board of Health, Philadelphia, Pa.:

Sir: Referring to previous correspondence, I transmit herewith for your information, a copy of a circular issued by the Department of State to United State consular officers, directing the refusal of authentication of invoices of hides of neat cattle from districts in which the disease of anthrax is known to exist.

Respectfully yours,

W. B. HOWELL,  
Assistant Secretary.

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Department of State,

Washington, September 27, 1897.

To the Consular Officers of the United States:

Gentlemen: The following letter from the Secretary of the Treasury, of the 18th instant, is communicated to you for your information and guidance:

“Referring to section 25 of the act of July 24, 1897, which prohibits the importation of the hides of neat cattle from any foreign country into the United States, and to Department’s circular of November 22,



1895 (S. 16,557), permitting the importation of such hides, if properly disinfected under authority conferred on the Secretary of the Treasury by said provision of law, I have the honor to request that our consular officers may be instructed to refuse authentication of invoices of hides of neat cattle from districts in which the cattle disease anthrax is known to exist. This request is made on the advice of the Secretary of Agriculture, and in view of the fact that an outbreak of anthrax has lately occurred at Falls Creek, Pa., resulting in the death of animals and human beings in consequence of the manipulation in tanneries at that place of the hides of cattle imported from China."

You are directed to comply strictly with this instruction.

Respectfully yours,

THOS. W. CRIDLER,  
Third Assistant Secretary.

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### TUBERCULOSIS.

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July 19, 1897.

Dr. Benjamin Lee, 1532 Pine St., Philadelphia:

Dear Doctor Lee: In reference to the matter of cattle inspection, etc., I would say that a general dairy inspection is desirable. The frequent discovery, not only of tuberculosis, but of febrile eruption and udder diseases among dairy cows is proof of this. It has been shown by many reputable investigators that the milk of tuberculous cows is dangerous when the disease is generalized and when the udder is infected. It may also be dangerous in some other cases when the disease is comparatively slight and the udder is, so far as can be determined by examination made during life of the animal, in a perfectly healthy condition. However, I think that such cases are not of very frequent occurrence, and that the milk is usually infectious intermittently. An ideal dairy inspection would include a physical inspection and a turberculin test of each milch cow, together with a careful examination of the premises, the feed, water supplies, the habits and practices of the dairyman, the milk receptacles and the place in which the milk is stored. All of this is not obtainable at once, and I believe that it is wise to make a practicable beginning even if it is not perfect, and then develop it. A dairy inspection that would not be objected to seriously, either on the ground of expense or interference with property rights, would be a physical examination of milch cows and their stables, feed, water, etc.



As to the disposition of animals which react to the tuberculin test, I would say that in the experience of the State Live Stock Sanitary Board the reports of nearly one hundred inspectors show that every animal that has been condemned as tuberculous has actually contained the lesions of the disease, but not always in advanced stages. Sometimes the lesions were exceedingly slight and confined to a single lymph gland; in other cases, when the physical appearance of the animal was of the best and every indication excepting the tuberculin test pointed to perfect health, the distribution and extent of the tuberculous processes were amazing, involving nearly every part of the body. This has occurred in cows that were giving a large flow of milk and were fat enough to be butchered. The State Live Stock Sanitary Board arranges appraisement and destruction of reacting cattle or their retention under certain conditions that are referred to in Bulletin No. 1, a copy of which I forward in this mail.

With best regards, I am,

Yours truly,  
LEONARD PEARSON.

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#### CONSUMPTION—SANITARY AUTHORITY OVER TOWNSHIPS.

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January 20, 1897.

Mr. Benjamin Lee, Secretary State Board of Health, Philadelphia,  
Pa.:

My Dear Sir: I have been requested to ask you if you will kindly let us know the feeling of the State Board of Health on quarantining consumption, and whether you think it is right for us to put such disease on the infectious and communicable disease list, as being dangerous to the public health, and quarantine the patients accordingly and to what extent.

There are a number of little hamlets or collections of houses within a radius of perhaps five or six miles of our place, over which there does not seem to be any special sanitary authority. One or two of these are fair sized places, such as Rouseville, which, I believe, is incorporated; also, the west end suburb just outside of Oil City, for which application for a charter has been made, and we would like to know the best manner of guarding against infection or contagion therefrom. Your Board, some time ago, authorized us to look after the sanitary condition of the Allegheny river above this point, and it occurred to some of our board perhaps you could deputize our local

board so that we could have jurisdiction over these places I speak of, perhaps making our health officer your agent or health officer, or something of that kind, but we do feel there should be some authority exercised over these places for our own protection. I will give you a little sample of why we speak of this: This fall diphtheria broke out about five miles from here, a place of perhaps twenty-five or thirty inhabitants, where there is a church and a public school. Two or three of these children attacked died, others had apparently a very light attack of it. They did not exercise the precautions in the way of quarantining them that some of the others felt they should, permitted them to go to Sunday school, etc. We can't say that any special harm came from it, but it certainly caused a great deal of uneasiness, particularly as some of the residents had more or less business with some of our city people, who, in turn, got rather anxious and we were spoken to by different ones. Our idea is that if we, or our health officer, had authority over them we would very soon exercise the authority in the same direction as we do with similar cases in the city. Will be very glad if you will favor us with your suggestions.

Respectfully,

\_\_\_\_\_,  
Secretary.

\_\_\_\_\_  
Reply.

January 22, 1897.

Acting Secretary, Board of Health:

Dear Sir: Replying to your favor of the 20th inst., I would say that the State Board of Health, some three or four years ago, adopted a resolution recommending the local boards of health to place consumption on the list of communicable diseases, and to require that whenever it has reached the dangerous stage, that is to say when active supuration is taking place, and the expectoration of the patient, therefore, contains the bacilli of the disease, physicians should be required to report the case to the board of health. The State Board of Health, however, does not recommend quarantining either the house or the patient. This would be unnecessary and would be involving a very serious hardship. The open air is essential to such patients and they can take precautions which will make it entirely safe for them to go abroad. Whenever, however, a case is reported to a board of health it becomes its duty to provide both the physician and the family with information as regards the character of the disease and the precautions necessary to be adopted to prevent its spread. Such information is contained in the circular, of which I send you a few copies. I will be pleased to furnish more of them as you need them. As soon as I receive from you a statement as to the exact boundaries of the district, named by township, over which you think your

health officer could exert a protective jurisdiction, I will send him a certificate of appointment as deputy inspector for such township or townships.

I may say that our Board is in hopes that a law will be passed by the present Legislature to establish a health officer of some kind in each township, with full authority to enforce quarantine and disinfection. This will be a relief, both to the State Board of Health and to the boards of health of cities and boroughs. I trust that not only yourself but every member of your board will feel it to be his duty to impress upon your representatives in the Legislature the necessity for the passage of an act of this kind, as well as to urge the appropriating of a larger sum for the expenses of the State Board of Health.

Yours very truly,

(Signed.)

BENJAMIN LEE,  
Secretary.

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### VACCINATION.

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November 18, 1896.

Dr. Benj. Lee, Secretary, State Board of Health, Philadelphia, Pa.:

My Dear Doctor: The board of health and school directors of \_\_\_\_\_ are having trouble with school children. It seems that there are six or eight children, aged from 8 to 10 years, who have not been vaccinated and will not be. Their parents have procured a physician's certificate setting forth the opinion that it would not be safe to vaccinate them. The board of health have insisted on vaccination and, consequently, the trouble. They asked me for instructions and I refer the matter to your honorable Board.

Yours truly,

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Reply.

November 20, 1896.

County Medical Inspector:

Dear Doctor: Replying to yours of the 18th inst., I would say that in the first place the responsibility with regard to the vaccination of school children is placed by law upon the board of education rather than upon the board of health. I consider it desirable, therefore, for the board of health to make a respectful representation to the school board of the importance of having the law complied with and

to leave the matter with that body. The law makes no exceptions and intended to make none and places no discretionary power in the school board. Had it done so it would have defeated its own object. My own opinion is that children that are too sick to be vaccinated are too sick to attend school. They should live in the open air, have proper attention to diet and be treated by their family physicians until their health is restored. Of course, if the principal or teacher admits an unvaccinated child to school, he or she becomes liable to prosecution for violation of the law, and my understanding is that the school directors, as persons in charge of schools, become liable to prosecution if they authorize a principal or teacher to admit such child.

(Signed.)

Yours very truly,

BENJAMIN LEE,

Secretary.

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December 24, 1896.

Dr. Benjamin Lee, Secretary, State Board of Health, Philadelphia:

My Dear Doctor: Some time since, I detailed one of our physicians as a medical inspector for the special purpose of making a systematic inspection of the schools in this city, with a view of determining whether or not the requirements of the act of June 18, 1895, especially as it relates to the vaccination of pupils, was being complied with.

In case he found any children who did not exhibit marks of successful vaccination he was authorized to tender the operation gratuitously. This tender was, of course, not intended to interfere with the performance of that duty of the family physician or any other whom they might prefer to have perform the operation.

In making this tour, the medical inspector has found a dozen or more pupils who produced certificates of successful vaccination, signed by physicians of the homeopathic school, and yet, upon examination, no marks could be found. It appears that these certificates were based upon an alleged immunization resulting from the administration of the vaccine lymph internally.

In view of these facts and conditions, I beg to ask your opinion and advice as to what action this bureau ought to take, under the law, in relation to such cases. Should such alleged immunization be recognized? What has been the result of your investigation or that of others regarding such methods? If you will kindly afford me the benefit of your advice and opinion, I will be greatly obliged.

Tendering you the compliments of the season, I am,

Yours very truly,

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Superintendent, Bureau of Health.

Reply.

December 30, 1896.

Supt. Bureau of Health:

Dear Sir: Replying to yours of the 24th inst., I have to say that the question which you propose, namely, as to whether a certificate of a physician as to the fact of vaccination of a child shall be accepted in cases in which there is good reason to suppose that it is fraudulent, I would say, that this question has been already brought before me. The opinion which I have given is that from the wording of the law a board of health does not seem to have authority to go behind or question the validity of the certificate, and my advice has been that, unless in the presence of an epidemic no attempt should be made to discredit a certificate. The investigation, however, I regard as one of importance, and cases should be carefully recorded for future use. The men who are playing this game will eventually get themselves into trouble and that will be the time for the board of health to come down on them. You will have noticed that several attacks on the constitutionality of the law have already been made up to this time, fortunately unsuccessfully. At the same time the recent report of the English Commission will give the antagonists of vaccination new hope and I feel it to be important that boards of health, while quietly using their influence to enforce the law, should as far as possible, avoid stirring up antagonism. I believe that such a course will result in the general acquiescence of the entire public in the enforcement of the law. I have been astonished myself at the success which has, as a rule, attended the efforts of school boards and boards of health in compelling acquiescence with its provisions. A few years of its enforcement, together with a careful supervision of immigrants would render our State, to all intents and purposes, immune to small-pox. You will observe that the responsibility of the enforcement of the law is thrown upon school teachers and principals, and that the only function of boards of health with regard to it is in regard to registration. This, of course, may be held to imply supervision and inspection with a view of determining the accuracy of the results. At the same time, the authority is conveyed rather by implication than by direct assertion.

I have thus given you an idea of the way in which the question has impressed me. Our Board has taken no action upon the question, and my feeling is that at the present time it would not be wise for it to do so. The law in all respects is working so well that I think it a pity to hazard its continued existence by making it any more objectionable or oppressive than is absolutely necessary.

I have your two notifications of small-pox, and received them with regret. It would seem as though the germs must have been lurking in premises in the city since the last outbreak. I hope that you will

not cease your efforts to trace the cause. Should an epidemic occur, it may afford you a pretext for insisting on true vaccination in the cases with regard to which you have consulted me.

(Signed.) Yours very truly,  
BENJAMIN LEE,  
Secretary.

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January 9, 1897.

State Health Board, Harrisburg, Pa.:

Gentlemen: Will you please give me an explanation of the law relative to vaccination, whether parents or guardians are permitted to vaccinate their children, and if done successful whether the vaccine arm, with certificate from parent or guardian will make the child admissible to our public schools. And very much oblige,

Yours very respectfully,

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Reply.

January 12, 1897.

Dear Sir: Replying to your inquiry for information of January 9, I enclose you a copy of the law requiring the vaccination of school children. You will find, by reference to section 2, that the law requires that the certificate shall be signed either by the medical attendant of said person or persons or by a physician to be designated by the health authorities. I am, therefore, compelled to answer your question negatively so far as the certificate goes. There is, however, nothing in the law requiring that the vaccination shall be done by a physician. Any physician would be able to judge by the appearance of the sore or scar whether the vaccination was successful or not, but those who are not physicians, as a rule, are entirely unable to form an opinion on this subject. The State Board of Health, therefore, considers it in the highest degree desirable that vaccination should be performed by physicians. A physician alone understands the precautions necessary to be taken in order not to produce an unnecessarily sore arm.

(Signed.) Yours very truly,  
BENJAMIN LEE,  
Secretary.

## THE VACCINATION CLAUSE OF THE LAW OF 1895.

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December 17, 1896.

Dear Sir: I have received a copy of the paper containing a statement of the argument in the case of W. F. Sprague v. the School Directors of Otto township and teachers in the schools of Duke Centre. I would like to correct an impression which prevails throughout the State that the act of 1895, "to provide for the more effectual protection of the public health in the several municipalities in the Commonwealth," originated or was framed by the State Board of Health. In point of fact, that bill was drawn up by the committee on legislation of a voluntary association, entitled "The Associated Health Authorities of Pennsylvania." This association is composed of members of boards of health and health officers of the various cities and boroughs in the State, the State Board of Health, however, being represented in the body. Even within this body, the State Board of Health did not originate the movement. The members composing the association are, to a comparatively slight extent, physicians, nor is a majority of the legislative committee physicians. The law is, therefore, simply the ultimate expression of the sober judgment of men who have been especially selected as the guardians of the public health in their respective neighborhoods, many of whom have arrived at their conclusions after long years of public service. It is in no sense a product of theorists or of doctors, but of practical men having a plain duty assigned them by law and anxious to have a means of performing that duty. So far as the medical profession is concerned, it is directly antagonistic to their pecuniary interests. That the bill was submitted to me for my consideration I am quite willing to admit, and also that I gave it my hearty approval, and have had no occasion to change my opinion with regard to its merits. I may say that the question as to the scope of the word "municipality" at once suggested itself to me and that I took pains to assure myself that townships were in the eyes of the law municipalities. Had I not felt convinced of this point, I should strongly have objected to the title of the bill. The law being upon the statute book, of course the State Board of Health has but one duty, that of urging its enforcement. It has adopted the law as its regulation for the restriction of contagious and infectious diseases in all parts of the State which have no local health authorities. It looks forward, however, with confidence to further legislation which will establish a local health authority in every township and thus relieve it of onerous duties which, in its judgment, do not



properly belong to a State Board of Health. The claim that the law is unconstitutional because vaccination is not mentioned in the title is simply ridiculous. It cannot be expected that the title of a law shall rehearse every provision of the law, and the framers of the State Constitution never intended to enact such an absurdity. I note in the newspaper article that you refer to certain sections of the Constitution as declaring directly or indirectly that townships are municipalities. May I trouble you to send me a copy of the Supreme Court decisions and the acts of Legislature which you referred to as recognizing the same fact. I will gladly bear the expense of the typewriting.

If this law is sustained it will, within a comparatively few years, render the entire population of this great Commonwealth absolutely immune to small-pox. If, on the contrary, the vaccination clause is for any reason discredited by the courts, the result will be that here and there throughout the State strong centers of the anti-vaccination craze will spring up and the calamity which has during the past year overwhelmed the city of Gloucester, in England, will be frequently repeated and disastrous panics will be constantly occurring within our own borders.

Trusting sincerely that you will be successful in your defense of the school board,

I have the honor to be,

Yours very truly,

(Signed.)

BENJAMIN LEE,  
Secretary.

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**LETTER ADDRESSED BY THE SECRETARY TO A MEMBER OF  
THE STATE LEGISLATURE RESIDING IN A RURAL DIS-  
TRICT WHO DESIRED THE BOARD TO COMPEL HIS LAND-  
LORD TO CLEAN HIS WELL OF DRINKING WATER.**

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October 21, 1897.

Dear Sir: Replying to your valued favor of the 18th inst., I call your attention to the enclosed circular letter, which the Board found it necessary to issue shortly after its organization, from the fact that it was so constantly appealed to to settle difficulties between neighbors, or between landlord and tenant, which were simply matters of private grievance, usually involving the expenditure of a trifling amount of money but in no way affecting the public health, which we understand it to be our duty to preserve. We can no more attempt to protect the health of each individual, or each family, in a population of four millions than we could furnish medical advice to such numbers.



The courts are still open, as they always were, for such cases. You can appreciate how carefully we are compelled to husband our resources when you reflect that for investigation of epidemics, of nuisances of a public character, of polluted water supplies of cities and towns, inspections, registration of vital statistics and routine office work we have but four thousand dollars annually. This, spread over an area of 45,000 square miles, with a population of between five and six millions, becomes excessively thin. We have been importuning the Legislature for years to provide us with a State laboratory, in which just such examinations as you request could be made, provided a sufficient appropriation were also made for the maintenance of the same. Apart from the financial problem, you can readily see that it would be a physical impossibility for a single board, all the members of which are engaged in their own professions and avocations, and with a single executive officer, to attend to complaints of private individuals all over this vast Commonwealth. In other words, this Board could not by any possibility assume all the functions of a local board of health in every township in the State outside of incorporated cities and boroughs. Our constant effort, ever since our Board was established, has been to induce the Legislature to create either a board of health or a health officer in each township, so that there would be a local officer of some kind who could receive and act upon cases of this sort. To this suggestion also the Legislature has turned a deaf ear.

The extremely low charge for which we offer a chemical analysis we have been able to arrange only by obtaining special rates from private chemists. While you might possibly be able, through some personal influence, to secure an analysis at this low figure elsewhere, you certainly could not by simple application to a practising chemist.

As regards compelling your landlord to rectify the condition of your well, the matter stands in this way: The law gives our Board the authority to order abatement of nuisances or special causes of disease. In order to enforce that order, all that we can fall back on is a provision that a violation of an order of the State Board of Health is punishable by a fine not to exceed one hundred dollars, at the discretion of the court. This, you see, at once makes the courts the final authority, both as to fact and as to amount of penalty, and you know what an uncertain quantity a jury is. We have endeavored to get the Legislature to give us the same authority that every local board possesses, that is to say, to permit ourselves to do the work of abating nuisances and make the expense a lien on the premises. This would give us a basis on which we could threaten an offender, that if he did not obey the order of the Board, the Board would carry out the order at his expense.

As you are a member of the House of Representatives, I am extremely glad to have had an opportunity of bringing these matters

to your attention at a time when you had a personal interest in questions of this kind.

Trusting that I have made the position of the Board and the difficulties which it has to contend with in the performance of its manifold functions, clear to you, and regretting the impossibility of acceding to your request, I am,

(Signed.) Yours very respectfully,  
BENJAMIN LEE,  
Secretary.

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Commonwealth of Pennsylvania,  
State Board of Health,  
Executive Office 1532 Pine St.,  
Philadelphia, . . . . ., 189...

Dear Sir: Replying to your request for an analysis of water by the State Board of Health I would say that, owing to the limited appropriation for the uses of the Board it is not possible to furnish analyses free of expense. A charge of \$7.50 is therefore made for either a chemical or a bacteriological examination. Both of these examinations are desirable in testing water to be used for drinking purposes, but either will be made alone if desired. The Board furnishes bottles, properly prepared and boxed for transportation, for taking samples, and will receive specimens only in these bottles. On receiving notification from you how many samples you desire to have analyzed I will forward the necessary number of bottles. The analysis will be made, however, only in conformity with the following conditions:

1. The instructions for taking the sample, on the box containing the bottle, must be strictly complied with.

2. A statement must be sent at the same time with the sample, of the conditions under which the sample was taken, and surrounding the source of the supply. These are, a. the presence of any epidemic disease, b. the nature of the source; that is, ordinary pump well, driven well, artesian well, spring, river or stream, reservoir, cistern or hydrant, c. opportunities for pollution, which may be, access of cattle to a stream, cess-pool built over a stream, sewers or drains of manufacturing establishments, emptying into a stream, the proximity of a cess-pool, or sink containing foul material, to a well, or other similar conditions.

3. Date of taking samples and names of persons present, with official positions if any, must be given.

The above mentioned conditions are rendered necessary by the fact that analysis alone cannot be implicitly relied upon to determine the

character of a water. The presence of chemical constituents, which would condemn a water liable to certain sources of pollution as absolutely unfit to be taken into the human system, might, in a water not exposed but, in consequence of the geological formation, from which it sprung, containing the same earthly salts, possess no such significance. It is impossible therefore, for the analyst to answer the question usually put, "Is this a wholesome water?" unless he is in possession of all the data essential to form an opinion.

With regard to the bacteriological evidence, it must also be borne in mind that, while the presence of the germs which accompany a particular disease would absolutely condemn the water, their absence would not necessarily prove that the water had not been the cause of disease, from the fact that disease germs, unlike chemical substances, are distributed very unevenly through water, and a given sample might not contain them, while one taken at another point might be rich in them.

It is scarcely necessary to say how easily a test can be vitiated by carelessness in collecting samples, by which extraneous polluting matter may be introduced.

Awaiting your further pleasure, I am,

Yours very respectfully,

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Secretary.

(Reverse Side of Circular Letter.)

P. S. Since issuing this circular, the Board has found that the transmission of a sample of water affords time for such an increase of bacteria as to make the bacteriological examination untrustworthy. The plan has therefore been adopted whenever a bacteriological examination is desired, of sending the Bacteriologist of the Board to take the samples and make his cultures on the spot. In this way alone can an accurate result be arrived at. The Bacteriologist, at the same time, makes an inspection of the water-shed and reports on that subject also. In this way, the State Board of Health is enabled to form an intelligent opinion as to the character of the water.

The expense for the visit of the Bacteriologist and inspection is \$15.00 per diem and traveling expenses. The chemical examination, however, can be made from a sample sent in accordance with instructions.

B. L.

### NUISANCES ABATED.

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June 6, 1897.

Benj. Lee, M. D., Sec'y State Board of Health, Philadelphia, Pa.:

Dear Sir: Replying to your obliging favor of April 16, I would say that I laid the matter of having orders served on those maintaining nuisances before a committee of those interested in the matter, but as yet have received no definite reply. I find, however, that the agitation and the examination made by your authority has had the desired effect upon the property owners, householders of the avenue, and the street is now being kept in much better condition. It be well therefore to let the matter rest for the time and note the condition from time to time. Thanking you again for your prompt and thorough attention to the matter, believe me very respectfully yours,

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### PREVENTION OF MEASLES.

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Mr. Benj. Lee, Secty. of State Board of Health, Philadelphia, Pa.:

Dear Sir: For information I write in relation to the disease of measles. We have in our town about 250 cases of measles, and it appears to be getting worse every day, but very few fatal so far.

Now the question is, how are we to deal with the public in such cases? Are we to act as we would in cases specified as contagious by the law?

I notice that the disease of measles is not named as a contagious disease.

Please send me a copy of the Board of Health laws.

By answering the above immediately, I will be obliged to you.

Respectfully yours,

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Reply.

November 12, 1896.

Dear Doctor: Replying to yours of yesterday, I have to say, that the law of 1895 in no way diminished the powers of local boards of

health, it simply added to them. By reference to the regulation of the State Board of Health and also to the Model Ordinance, and probably to your own local ordinance, you will find measles mentioned as a contagious, or communicable disease dangerous to the public health. Your own Board, therefore, has full authority to use such measures as it deems necessary in regard to quarantine, disinfection and closure of public schools.

Trusting that this reply will be satisfactory I am,

Yours very truly,

(Signed)

BENJAMIN LEE,  
Secretary.

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## RIGHTS OF MINISTERS OF RELIGION TO ENTER INFECTED HOUSES.

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November 19, 1896.

Mr. Benj. Lee, M. D.:

Dear Sir: What is the law in regards to ministers going into places where contagious diseases exist? Have they the right or not? If so how and why have they more privilege than any other persons?

If you have any laws on hand which would give us light on these points please let us have a few,

And oblige yours,

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Secretary.

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Reply.

November 21, 1896.

Secretary Board of Health:

Dear Sir: Replying to yours of the 19th inst., I have to say, that ministers have in the eye of the law no privileges as regards entering houses in which contagious disease exists than have other citizens. Public opinion, however, demands that a sick person should never be denied religious consolation and rites. It is therefore desirable that each board of health should formulate regulations under which any persons whose duty it is to enter houses in which contagious disease exists, may be permitted to make such visits.

I enclose a copy of the circular of our Board with reference to the precautions to be taken by physicians. This would be a very good guide. Your regulations might read as applying to physicians, nurses,

undertakers, or others whose duty compels them to enter houses in which contagious disease exists.

All ministers should be compelled to apply to the board of health for a permit to visit such house and the permit should be granted only on the pledge of the applicant that he will comply with the regulations of the Board.

(Signed) Yours very truly,

BENJAMIN LEE,  
Secretary.

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CAN MEMBERS OF A BOARD OF HEALTH ACCEPT APPOINTMENTS UNDER IT?

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November 23, 1896.

Dr. Benj. Lee, Sec. State Board of Health:

My Dear Sir: Will you kindly answer the following inquiries:

Is it in violation or contrary to the spirit of "the Act creating Boards of Health—Boroughs," &c. (or any additions thereto), for the Health Officer and Secretary, either or both, to be members of the Board? Accepting salaries for the duties they perform in their respective offices.

If not contrary to law, is it customary in other boards for the officers to be members?

Also, do you think their services would be augmented by their membership?

Very resp.,

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Sec. Bd. of Health.

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Reply.

November 24, 1896.

Secretary Board of Health:

Dear Sir: Replying to yours of yesterday, I have to say that there is nothing in the law establishing boards of health in boroughs which prevents either the health officer or the secretary from being members of the board, and accepting salaries for the duties they perform in their respective offices. These salaries they receive not as members of the board, but as officers. The law was purposely drawn in this way, because it was thought that in many small boroughs it would be difficult to get enough responsible persons to serve on health boards and at the same time to secure officers separate from the board. On

the other hand it is not customary for these officers to be members of the board, nor do I think that it adds to the efficiency of the board or of the officers that they should do so. For the position of the secretary, it makes little difference, but I consider it desirable that the health officer, if possible, should not be a member of the board, as this would to a certain extent diminish the authority of the board over him.

Yours very truly,  
(Signed)

BENJAMIN LEE,  
Secretary.

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### RIGHT OF PHYSICIANS TO ENFORCE DOMICILIARY QUARANTINE.

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December 4, 1896.

Benj. Lee, M. D., Philadelphia, Pa.:

My Dear Doctor: At a meeting of the York Co. Medical Society, the question arose: Has any physician having charge of a patient suffering from diphtheria, scarletina, etc., living in a country district, where the family has frequent and intimate communication with neighbors—the schools not being in session—any authority, supported by law, to quarantine that family? We all know that in all sections of the State there are too many heads of families so densely ignorant and bigoted in regard to contagious diseases that they boastfully resist any curtailing of their liberties. Hence the question.

Truly yours,

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Reply.

December 8, 1896.

Member Board of Health:

Dear Doctor: Replying to your inquiry of the 4th inst., I would say that the only authority which a physician has as regards the enforcement of quarantine is a moral one, the law giving no power of this kind. The only proper plan for a physician practicing in a rural district where there is no local health authority if he finds that his injunctions are disregarded, is to address a communication to myself, as the Secretary of the State Board of Health, when I will for the time being confer upon him the necessary authority or will declare any family named by him, in quarantine. I am very desirous to get a law

through the next Legislature establishing a health officer in each township. This will meet the difficulty which you speak of.

Yours very truly,

(Signed)

BENJAMIN LEE,  
Secretary.

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### QUARANTINE.

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December 17, 1896.

State Board of Health, Harrisburg, Pa.:

I wish to ask a few questions pertaining to health rules. Diphtheria notice posted on door reads: "No person shall enter or leave this house, etc., without permission from Health Board." Does that include members of the household? Can the fine imposed be collected? If so, how? Is the father of an infected household allowed to go to and from his place of business or work as usual? If not, is the board required to recompense him for time lost? Can any clause contained on card and not mentioned in borough health ordinance be enforced by local board?

Awaiting a reply,  
I am,

One of the local Board of Health.

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Reply.

December 19, 1896.

Member Board of Health, \_\_\_\_\_, Penna.:

Dear Sir: Replying to your note of inquiry of the 17th inst., I send you a copy of the State law for the control of contagious diseases. Local boards of health can enforce quarantine in accordance with the provisions of this law independently of the borough ordinance. Diphtheria being very infectious, and at the same time one of the most fatal diseases from which our people are now suffering, it is important that its isolation should be very strict. If in any case the circumstances are such that the board considers that isolation can be effected in the house, so that it would be possible for the father of the family, having absolutely no communication with the portion of the house in which the patient is, and very careful precautions being taken by those who are nursing the sick, not to mingle with the rest of the family, special permission might be granted for this purpose.



Penalties imposed by the board can be collected in accordance with the clause of the enclosed law referring to that subject. I also send you a copy of our diphtheria circular, and of the circular indicating the precautions to be taken by physicians.

Yours very truly,

(Signed)

BENJAMIN LEE,  
Secretary.

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### COMPENSATION FOR LOSS OF TIME IN QUARANTINE.

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January 28, 1897.

Dear Sir: We had a case of scarlet fever in our town and the family were quarantined the usual time. Now they want pay for the time. Can they get it? If they can, out of what funds should it come? Please inform me.

Respectfully yours,

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President of Board of Health.

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Reply.

February 3, 1897.

President Board of Health:

Dear Sir: Your letter of the 28th ult., has been referred to me for answer.

I have to say that a family cannot claim compensation for loss of time during their detention in quarantine. If their effects, such as bedding and clothing, have been destroyed by instructions of the board of health they have a just claim on the borough for compensation. It is also the duty of the authorities to see to it that persons in quarantine do not suffer for want of the necessaries of life. Beyond this they have no claim on the borough treasury. If articles have been destroyed it is the duty of the board of health to appraise the same and endorse the application to the council.

Yours very truly,

(Signed)

BENJAMIN LEE,  
Secretary.

### QUARANTINING MEASLES.

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March 20, 1897.

Dr. Benjn. Lee, Sec'y State B. of H., Philadelphia, Pa.:

Dear Sir: We have a case on hand here which the board would like any suggestions you may make. To be of use to us anything must reach here by Wednesday eve next.

A return was made of a case of measles, of which I enclose a correct copy. Acting under this information and following the ordinance of the borough, which is the model ordinance prepared by the State Board, I had the house quarantined. We have another ordinance imposing a fine of \$5-\$25 on any person leaving a house which is under quarantine. The head of the family was in the house at the time the placard was put up, and for 24 hours at least thereafter. Then he left the house and went on his run (he is a R. R. engineer). A warrant was sworn out and he was arrested for violation of ordinance last mentioned in leaving a quarantined house. Their defense seems to be:

1st. That measles is not a contagious disease.

2d. That the B. of H. has no authority or right to quarantine for measles.

3d. That the placard does not constitute a quarantine. The placard is placed in a conspicuous position in the front yard.

If you have anything that might help our case, we would be very glad to hear of it.

Yours very respectfully,

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Secretary.

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Reply.

March 23, 1897.

Secretary Board of Health:

Dear Sir: In reply to your questions, I would say: First, that measles is probably the most contagious of diseases. Secondly, that a board of health has a perfect right to quarantine it if its regulations endorsed by the council so declare. Third, the language of your placard certainly constitutes it a declaration of quarantine. It however allows the board of health to authorize such persons as it deems wise to go out or in the placarded house.

I would suggest, that inasmuch as the public feeling, and in fact, that of the profession, is unfortunately that measles is a disease of a trifling nature, and inasmuch as the principal danger consists in children carrying the disease to school, it would be well in the case of measles to make an exception in the case of the head of the family, provided he is willing to take certain precautions, and provided that the circumstances of the family and dwelling are such that these precautions can be maintained. If this act of violation was evidently done with the intent to defy the authority of your board, I would suggest your enforcing the fine. If, however, it was done rather in ignorance of the true condition of affairs, then I would suggest remitting the same, with simply a reprimand and advice to be more careful in the future.

(Signed) Yours very truly,

BENJAMIN LEE,  
Secretary.

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#### AUTHORITY TO QUARANTINE MEASLES.

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April 28, 1897.

Dr. Benjamin Lee, Sec. State Board of Health, Penn'a:

Dear Doctor: We have in this borough an epidemic of measles. At the suggestion of the board of health officer, the school board directed the principal of the public schools to exclude all pupils from school who had the measles, or came from homes where measles existed, until ten days after the subsidence of the eruption. The authority to do this was questioned, as the Pennsylvania school laws do not mention measles along with other contagious diseases. Will you kindly inform me by return mail what practice should be adopted and where the authority lies. Whether with school board or board of health, if either.

Yours very truly,

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Pres. Bd. of Health.

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Reply.

April 29, 1897.

President Board of Health:

Dear Doctor: Your favor of yesterday, informing me of the existence of an epidemic of measles in your town, and making inquiry as to where the authority lies for forbidding children capable of conveying

the contagion from attendance on school, is received. In reply I have to say, that this depends entirely on the regulations of your board as endorsed by the council. Measles was omitted from the State law, not because it was not considered important to have children thus excluded, but because it was felt that public opinion was not yet sufficiently educated to warrant placing it thereon. But the fact that it is not thus mentioned does not in any way contravene the right of a local board of health to introduce it into its own regulations. If your ordinances do not warrant executive action by your board, my suggestion is, that instead of sending an order to the principal of the schools, you send a recommendation to the school board. In this way you will have discharged your own duty and placed the responsibility upon that body. I send you one hundred copies of our circular on measles, recently issued, for distribution, and will send more if you can make use of them. I believe myself that the time has come when strict precautions should be taken with regard to this most infectious of diseases, and you will see my reasons therefor in the circular. If you could persuade the school board to have the entire circular read aloud by the teacher in each school, the educational effect would be extremely good.

Yours very truly,

(Signed)

BENJAMIN LEE,  
Secretary.

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#### CAN JUSTICES ISSUE TRANSIT PERMITS?

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December 17, 1896.

Secretary of the State Board of Health:

Dear Sir: Would you kindly give me information in regards to removal of disinterred bodies. There is a party in this place that have a child buried at Wilmington, Del., that died of diphtheria about a year ago, and they would like to bury it at this place. They called at my office to have a permit issued to do so, claiming I had the right so to do, as this is not an incorporated place. I would be greatly obliged to you if you would let me know if there is any rule authorizing justices of the peace to issue permits, adopted by the State Board of Health; also, if there is, would you kindly furnish me with a copy of a form of such permit. Hoping to hear from you, I remain.

Yours respectfully,

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Reply.

December 19, 1896.

Dear Sir: Replying to your inquiry of the 17th inst., I have to say that the State Board of Health at its last meeting adopted a regulation forbidding the disinterment and transportation of bodies dead of diphtheria within a period of ten years after death. As regards the right of a justice of the peace to issue transportation permits, I would say, that at one time the State Board of Health did make such a rule. Since then, however, a medical inspector has been appointed in each county, and the authorization for the issue of permits is transferred to that officer.

(Signed) Yours very truly,

BENJAMIN LEE,  
Secretary.

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LIABILITY FOR DESTRUCTION OF INFECTED CLOTHING  
AND EFFECTS.

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December 18, 1896.

Secy. B'rd of Health, Harrisburg, Pa.:

Dear Sir: I write this to you for information. We had two cases of diphtheria in one family, both fatal; and after the second case, as the house was a small one, and we had no good way to fumigate it, we ordered all carpets, bed clothes, etc., in the bed room to be burned. The owner brought in a bill for more than new goods could be purchased for, and we refused to pay it, but tendered less. Can you inform us what our legal position is in the matter. An early reply will oblige.

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Sec. Board of Health.

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Reply.

December 21, 1896.

Secretary Board of Health:

Dear Sir: Replying to your inquiry of the 18th inst., I would say that there is no law in this State requiring a council or board of health to make good property destroyed for the protection of the public health. In the state of Michigan recently a decision has been rendered that it is the duty of authorities who cause property to be destroyed for this purpose to make good the loss to the owner. I have

little doubt that if the case were brought into court in this State a similar decision would be rendered. It appears to be nothing more than just. The decision to which I refer also holds that it is the duty of the board of health to pass upon the question of the amount of compensation. This decision was rendered by the Supreme Court of Michigan in the case of Safford vs. the Board of Health of the city of Detroit, decided July 8, 1896. I believe, therefore, that if your Board considers the amount asked for, to make good the loss, to be exorbitant, it has the right to cut it down. My advice is, that you make a formal tender in writing of the amount that, after careful consideration, you consider to be just. If he refuses to accept this and appeals to the courts, I have no doubt that you will be sustained.

Yours very truly,

(Signed)

BENJAMIN LEE,  
Secretary.

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#### AUTHORITY OF THE BOARD TO ENFORCE THE ACT OF 1895.

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January 5, 1897.

Dr. Benjamin Lee, Secretary State Board of Health:

Dear Sir: I am instructed by our board to write you with view to ascertain your opinion as to whether local boards of health can adopt new rules and regulations, pursuant to, and in line with, the act of Assembly, approved 18th June, 1895, for "The Restriction of Communicable Diseases," and without having to submit same to borough council for its approval. We contemplate amending our present regulations and bringing them in line with this act.

Kindly reply at your earliest convenience, and oblige,

Very respectfully,

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Secretary.

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Reply.

January 7, 1897.

Secretary of Board of Health:

Dear Sir: Replying to your favor of the 5th inst., I have to say, that the law of 1895, for the better protection of the public health, addresses itself directly to boards of health and not to borough councils. Its object is evidently to confer power directly on local boards, and in that way enable them to act efficiently and promptly independently

of the council. I have no doubt therefore that your board is competent to adopt new rules and regulations in harmony with this act, and quite independently of borough ordinances, and that you can enforce such regulation or regulations without the endorsement of the council. It would be well to have these regulations under a separate heading from your other regulations, indicating that they are in accordance with the statute law of the State.

Yours very truly,

(Signed)

BENJAMIN LEE,  
Secretary.

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### NOTIFICATION OF CONTAGIOUS DISEASES.

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Dr. Benj. Lee:

Dear Sir: Several members of this board desire to know what is the sense of the State Board of Health in reference to the reporting of contagious diseases, to the superintendent or teachers of public schools. Does the State supply blanks for the physician? Is he to report to the superintendent of public schools, as well as to the board of health, or is the secretary of the local board to notify the superintendent of schools when a case is reported to him? Is the secretary supposed to keep the superintendent of schools posted of the existence of contagion; also, of the removal and cure of the same?

Respectfully yours,

\_\_\_\_\_,  
Secretary.

\_\_\_\_\_  
Reply.

January 13, 1897.

Secretary Board of Health:

Dear Sir: Replying to your favor of the 11th inst., in which you ask the sense of the State Board of Health in reference to the reporting of contagious diseases to the superintendent or teachers of public schools, have to say:

First, That the State does not supply blanks for the physician. The State Board of Health simply furnishes models of blanks for such purposes.

Secondly. That the relation of the physician under the law of 1895, so far as regards notification of the existence of contagious disease,

is simply to the health authorities and not to the school authorities or teachers.

Thirdly, That by section 13 of the law it is expressly made the duty of the local health authorities to furnish both principals and teachers, and also physicians, the necessary certificates and blanks.

Fourthly. That by section 14 it is plainly the duty of the health authorities to furnish daily, by mail or otherwise, to principals or other persons in charge of said schools a printed or written bulletin containing the name, location and disease of all persons suffering from contagious diseases, unless the health authorities prefer to send a notice to each school on which pupils in whose families such diseases exist may be attending. It would certainly be a matter of courtesy toward the superintendent of schools for the board of health to keep him informed as to the existence of contagious diseases, but in each particular school information of the cessation of a case is given by the physician's certificate, stating that thirty days have elapsed since recovery and disinfection.

I send a dozen copies of the law for the use of members of your board.

(Signed.)

Yours very truly,

BENJAMIN LEE,  
Secretary.

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#### MAY MEMBERS OF BOARDS OF HEALTH HOLD OTHER OFFICES IN BOROUGHES.

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February 3, 1897.

Dr. Lee, Secretary, etc., etc.:

Dear Sir: In section 20 of the Pennsylvania Sanitary Code, act of June 18, 1895, we have, "*who* may be members of boards of health." Would you please inform us if this law is to be universal and strictly complied with? In small boroughs it is hard to fill boards with suitable persons and many refuse to serve if hindered from holding any or all other offices in the borough. May school directors, auditors, collectors and minor officers serve on boards of health in any case, or may they not? Where men are few, what is to be done to fill boards?

Your prompt reply will greatly oblige,

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President, Board of Health.



Reply.

February 5, 1897.

President, Board of Health:

Dear Sir: Replying to your favor of the 3d inst., I have to say that our Board interprets the prohibition in the act of 1895 as restricted to officers elected by the people and receiving salaries for the performance of their duties. Those who are simply appointees we do not consider to be referred to. Our decision has always been with regard to school boards that there is not only no incompatibility, but that it is very desirable that the school board should be represented in the health board, inasmuch as questions are constantly arising which are common to both bodies.

The difficulty to which you refer, of obtaining men to act on boards of health, is universally felt, inasmuch as the position often entails unpleasant duties and brings no compensation. As health boards gain the confidence of their respective communities, however, the position does become one of honor, and is, therefore, somewhat sought after.

(Signed.)

Yours very truly,

BENJAMIN LEE,  
Secretary.

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### RETURN OF BURIALS.

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May 15, 1897.

Dr. Benjamin Lee, Secretary State Board of Health, Philadelphia, Pa.:

Dear Sir: I am directed by the board of health of this borough to request you for your opinion as to who is the proper custodian of the coupon attached to burial permits, and if our board can compel sextons of cemeteries to return said coupons, or make report to some designated member of our body, that the dead body for which permit was issued has been buried by him and specify the location of such burial. The form used for burial permit by our board is the one approved by the State Board of Health.

Respectfully yours,

\_\_\_\_\_,  
Secretary Board of Health.

Reply.

May 18, 1897.

Secretary Board of Health:

Dear Sir: Replying to your favor of the 15th inst., I would say that the board of health is undoubtedly the proper custodian of the coupon attached to burial permits. It would be well for your board to adopt a rule similar to that of the board of health of Philadelphia, namely: "The returns of all permits for interment enclosed in a schedule are to be made to the office of the board of health before 12 o'clock m. on Saturday of each week."

(Signed.)

Yours very truly,

BENJAMIN LEE,  
Secretary.

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### REPORTING TYPHOID FEVER.

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October 8, 1897.

Secretary Board of Health:

Dear Sir: Replying to your favor of yesterday, I have to say, first, that the law is very explicit on the subject of reporting typhoid fever by physicians to the local boards of health. It is their duty so to report forthwith in writing upon blanks furnished for that purpose by the local board.

Secondly, It is not, however, necessary to forbid the children of a family in which typhoid fever exists from attendance on school. It is naturally the duty of the local board of health, upon receiving information of the existence of typhoid fever in a family, to instruct the responsible head of the family as to the precautions which should be taken as regards scrupulous cleanliness and the use of disinfectants in the sick room. This can be done either in writing or by means of a printed circular on the subject.

When children from a house in which there is typhoid fever are attending school, it is well for the board of health to request the teacher to keep such children under rather more careful observation than usual, in order that, if they develop any indications of illness however slight, such as headache, diarrhoea and unusual dullness, their parents may be notified to detain them from school. It rests entirely with the local board of health whether they shall placard houses in which typhoid fever exists or not. The State law does not require it, but this does not in any way forbid local boards of health from adopting this measure if they deem it necessary. If placarding

is not done, it will be well that every case of typhoid fever should be officially reported by the board of health in the local newspaper. I enclose a copy of the law.

(Signed.)

Yours very truly,  
BENJAMIN LEE,  
Secretary.

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CAN A BOROUGH COUNCIL CONSTITUTE ITSELF A BOARD  
OF HEALTH.

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October 9, 1897.

Benjamin Lee, M. D., Secretary State Board of Health, 1532 Pine St.,  
Philadelphia:

Dear Sir: I respectfully ask your advice in the following matter: After a year of experience and considerable expenditure of money, council finds itself unable to maintain a board of health for the reason that citizens are unwilling to serve on same. What can be done in such a case? Can council constitute itself a board of health and thus perform the duties pertaining to such an organization. An early reply will greatly favor,

Respectfully yours,

\_\_\_\_\_  
Chief Burgess.

\_\_\_\_\_  
Reply.

October 11, 1897.

Chief Burgess:

Dear Sir: Your esteemed favor of the 9th inst. is at hand. I confess to feeling surprised that in a place the size of Jonestown five citizens cannot be found of sufficient intelligence and public spirit to be willing to devote a little time for the sake of protecting the lives of their fellow citizens, their wives and their children. The plan which you propose of the council constituting itself a board of health would be illegal, and their orders could not be properly enforced. I can only urge that the president of your council keep on making appointments until he succeeds in finding citizens who have some little sense of their responsibilities to the community. I enclose circulars with reference to this question.

(Signed.)

Yours respectfully,  
BENJAMIN LEE,  
Secretary.

### NEED FOR TOWNSHIP BOARDS.

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October 15, 1897.

Dr. Benjamin Lee, Secretary, Philadelphia:

Dear Sir: In answer to your favor of 13th inst., which I enclose, I would say that I am not a member of any board of health, and I know of no board of health in this part of our county.

When we have contagious diseases, there seems to be no way of enforcing isolation or disinfection except by inducing the employers of the men to threaten to discharge if all the doctor's instructions are not carried out. I have had a good deal of trouble in managing these matters, and because there was no officer of the law to compel proper attention to isolation, etc., it has been almost impossible to keep disease from spreading. Then, about sudden deaths: Here is an example: I was called to see a man who had been drinking hard for three weeks; for some hours before they sent for me he had been suffering horribly, but he would not allow his two young daughters, with whom he lived alone, to send for a doctor. When I finally got there, he was dead. There was no evidence of any poisoning. It did not look like a stroke of apoplexy and there was nothing for me to work on. The coroner lives, I believe, at Du Bois, about 100 miles from here. There wasn't the slightest suspicion of murder. What was my duty in this case? What is the law in these cases? Peale is not a borough. There is no town board of health nor a township board. I hope I have made my questions plain.

Yours truly,

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Reply.

October 20, 1897.

Dear Doctor: Replying to your valued favor of the 15th inst., I note that you say that there are no health authorities in your part of the county; not being a borough, there is no legal authority for establishing a board of health or appointing a health officer. If, however, you are willing to assume the duties and responsibilities of the position, I will name you as a deputy inspector to the State Board of Health, subject to confirmation by the Board at its next regular meeting, the understanding being that you serve without compensation, simply from public spirited motives. Enclosed you will find a statement of the duties of this position.

With regard to the question of sudden death, this rather belongs to criminal law, and I am not able to give an ex cathedra opinion. If you were quite satisfied in your own mind that there was no other poisoning in the case, you would have been entitled, provided a certificate was required, to report it as one of alcoholic poisoning. We are, however, unfortunately so far back in the dark ages that there is no certificate of death required outside of cities and boroughs. At every Legislature we attempt to get this state of things reformed, and I trust we shall have your help when the next Legislature meets. If, in any case of sudden death, your suspicions are aroused, I deem it your duty to summon the coroner, no matter how distant he may be.

(Signed.)

Yours very truly,

BENJAMIN LEE,  
Secretary.

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#### VALIDITY OF ACT OF 1893.

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October 19, 1897.

Benjamin Lee, M. D., Secretary State Board of Health:

Dear Doctor: Will you very kindly give me the following information for the use of our board and myself:

Is the law establishing boards of health in boroughs a valid one? Can the borough council legislate the board of health out of existence? What position would you suggest a board to maintain should the subject be brought up in councils?

Thanking you for many past favors and assuring you of my interest in subjects of this kind,

I am, very truly,

\_\_\_\_\_  
President Board of Health.

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Reply.

October 20, 1897.

President Board of Health:

Dear Sir: Replying to your favor of yesterday, I have to say, first, that the law establishing boards of health in boroughs is a very valid one, inasmuch as five hundred boards have been acting under it for a considerable length of time, and not only has its validity never been questioned, but the courts have sustained actions under it. Secondly,

the borough council cannot legislate a board of health out of existence. The appointing power probably has the authority, under common law, to remove any member of the board for cause. If he does so, it is his duty to at once fill the vacancy thus created. This question has, perhaps, been started by a statement in the papers that the council of the city of McKeesport propose to abolish their board. This, as McKeesport is a city of the third class, they have the right to do. Borough councils have no such right.

(Signed.)

Yours very truly,

BENJAMIN LEE,  
Secretary.

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### DUMPS.

November 1, 1897.

Dr. Benjamin Lee:

Dear Sir: What information, if any, can you give this board, upon the management of dumps (public).

Respectfully yours,

\_\_\_\_\_,  
Secretary.

\_\_\_\_\_  
Reply.

November 2, 1897.

Secretary Board of Health:

Dear Sir: Replying to your favor of yesterday, I have to say that it is a matter of extreme difficulty to give general directions on the management of dumps. As a rule, each case has its own conditions and must be regulated accordingly. The first and universal law, however, is that upon no account must a municipality create a nuisance in the disposal of its refuse. Second, that garbage and other offensive material should be, as far as possible, removed distinctly from ashes. Thirdly, that by far the best mode of disposing of the offensive material is by cremation before decomposition has set in. In other words, the best way to manage dumps is not to have them. Fourthly, the area selected for the dump should be of such size that a large number of pits can be dug within its limits, and these pits should be used in succession, the deposit of each day being covered with fresh earth and quick lime. If a large farm is made use of, the material should be ploughed under on the same day it is hauled.

Yours very truly,

(Signed.)

BENJAMIN LEE,  
Secretary.

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LACK OF FUNDS.

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April 3, 1897.

Dr. Benjamin Lee, Secretary State Board of Health, Philadelphia, Pa.

Dear Doctor: At a meeting of the board of health to-day, I was instructed to communicate to you that councils have appropriated \$1,500.00, which is only one-half the amount that is needed to carry on successfully the board of health in this city, and respectfully solicit your opinion and advice in regard to the propriety of continuing on this department as it is. And when the \$1,500.00 are used up will it be obligatory on the city to pay for the operation of this board for the last six months of the year. You will confer a great favor on the members by giving your advice.

Very truly yours,

A. C. WALLACE,  
Secretary.

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Reply.

April 5, 1897.

Secretary Board of Health:

Dear Sir: Replying to your favor of the 3d inst., I would say:

First, That it would be very unsafe for your board to incur expenses beyond the amount specifically appropriated by the council.

Secondly. That my advice is that you continue in operation as a board, cutting down your expenses to suit the appropriation, and that you lose no opportunity of bringing before the public the fact that you are obliged to neglect much of your most important work in consequence of want of money. It might be worth while for you to sound your judges in order to find out whether they would be willing to grant a mandamus compelling the council to make a larger appropriation. Inasmuch, however, as the council has discretionary power in this matter, I have great doubts of the success of such an application. I may say that in this matter your position is very much the same as that of many other boards in the State, including the State Board itself, which does not get one-third of what it applies for and ought to have.

Yours very truly,

(Signed.)

BENJAMIN LEE,  
Secretary.

## IN REPLY TO REQUEST FOR MODEL RULES FOR BOARDS OF HEALTH.

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April 29, 1897.

Secretary Board of Health:

Dear Sir: I send you, as requested, half a dozen copies of model rules for boards of health. I beg you to bear in mind, however, that these rules are not in any way binding, but are simply intended as a guide to boards of health in their organization and administration. You can readily understand that, inasmuch as the municipalities of the State having health officers vary in population from a million and a quarter to five hundred, it would be impossible to assign duties for the different officers of a board of health which shall be applicable to all cities and boroughs. It was, therefore, necessary for our Board, in drawing up its models, to make the greater include the less, establishing in that way a system applicable to the great cities and allowing the smaller cities and boroughs to select from it such of the rules and arrangements as they considered applicable to their own conditions. For the same reason the State laws do not undertake to prescribe specifically the duties of a health officer. It is, therefore, the privilege and duty of each board to determine what the duties of its health officer shall be and what the duties of its secretary shall be. Some boards prefer to assign certain duties to one of these officers and some to another. Neither the State nor the State Board of Health will interfere with the rights of any local board in this matter, provided that the rules adopted do not contravene the constitution or any State law with reference to the duties of boards of health. I may say, in addition, that this matter is entirely in the hands of the local board of health and not of council. The local board appoints its own officers and assigns their duties. Of course, in many cases, it is desirable that the board of health should consult with the councils, or a committee of the same, as to the manner in which these offices can be filled for the best interests of the town, both from a sanitary and a financial point of view, but the final decision rests with the board of health.

These two bodies should always act in harmony, as in that way alone can the best results be obtained, and the greatest possible care should be taken, both by the mayor and the council, in their nominations, and the board of health in its appointments, that politics shall be utterly ignored in these matters. Nothing so absolutely



destroys the value of a board of health as the introduction of party politics into its administration and deliberations. The Governors of this State, from the first establishment of the State Board of Health, have been careful to observe this principle, taking into consideration only the fitness of a man for a position on the board.

Bear in mind that there is a distinction between rules and regulations. The rules govern the management of your own body, the appointment of its officers, the assignment of their duties. The regulations enforce the laws of the State and the ordinances of the borough for the protection of the public health, and carry penalties and, therefore, require the endorsement of the mayor in order to render them valid.

I have the honor to be,

Yours very respectfully,

(Signed.)

BENJAMIN LEE,

Secretary.

## APPENDIX K.

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### ORGANIZATION, BY-LAWS AND REGULATIONS OF THE STATE BOARD OF HEALTH AND VITAL STATISTICS.

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#### Officers and Members.

President, Prof. Geo. G. Groff, M. D., Lewisburg.

Secretary, Benjamin Lee, M. D., of Philadelphia.

Members, Pemberton Dudley, M. D., of Philadelphia; John Fulton, C. E., Johnstown; J. H. McClelland, M. D., Pittsburgh; George G. Groff, M. D., Lewisburg; Hon. Samuel T. Davis, M. D., Lancaster; Richard Y. Cook, Esq., Philadelphia; Benjamin Lee, M. D., 1532 Pine street, Philadelphia.

Place of meeting—Supreme Court Room, Harrisburg (unless otherwise ordered.) Janitor—John Harner, 1417 North Third street, Harrisburg.

Time of Meeting—Second Thursday in May, July and November, at 4 P. M.

#### Standing Committees.

I. Executive Committee—Richard Y. Cook, chairman; Pemberton Dudley, M. D., and Benjamin Lee, M. D., secretary. Place of meeting, executive office, 1532 Pine street, Philadelphia. Secretary's address, 1532 Pine street, Philadelphia.

II. Committee on Registration and Vital Statistics—Dr. Benjamin Lee and Dr. Samuel T. Davis. Bureau of Registration of Vital Statistics, Department of Internal Affairs, State Capitol, Harrisburg. State Superintendent of Registration of Vital Statistics, Benjamin Lee, M. D. Registrars of Marriages, Births and Deaths, all clerks of Orphans' Courts. Registrars of Practitioners of Medicine and Surgery, all Prothonotaries.

III. Committee on Preventable Diseases, Disinfection and Supervision of Travel and Traffic—George G. Groff, M. D., chairman; Samuel T. Davis, M. D., and John Fulton, C. E.

IV. Committee on Water Supply, Drainage, Sewerage, Topography and Mines—John Fulton, C. E., chairman, and J. H. McClelland, M. D.

V. Committee on Public Institutions and School Hygiene—S. T. Davis, M. D., chairman, and George G. Groff, M. D.

VI. Committee on Adulterations, Poisons, Explosives, and Other Special Sources of Danger to Life and Limb—Pemberton Dudley, M. D., chairman, and Richard Y. Cook.

VII. Committee on Sanitary Legislation, Rules and Regulations—James H. McClelland, M. D., chairman, and Benjamin Lee, M. D.

The President is a member ex-officio of all committees.

### County Medical Inspectors.

County.	Inspectors.	P. O. Address.
Adams, .....	J. B. Scott, M. D., .....	Gettysburg.
Allegheny, .....	S. M. Rhinehart, M. D., ..	Allegheny.
Armstrong, .....	S. A. S. Jessop, M. D., ..	Kittanning.
Beaver, .....	H. S. McConnel, M. D., ..	New Brighton.
Bedford, .....	A. Enfield, M. D., .....	Bedford.
Bucks, .....	A. M. Cooper, M. D., ....	Point Pleasant.
Blair, .....	C. B. Dudley, M. D., ....	Altoona.
Bradford, .....	S. M. Woodburn, M. D., ..	Towanda.
Berks, .....	D. Longaker, M. D., ....	Reading.
Butler, .....	S. Graham, M. D., .....	Butler.
Cambria, .....	W. E. Matthews, M. D., ..	Johnstown.
Cameron, .....	E. O. Bardwell, M. D., ...	Emporium.
Carbon, .....	J. B. Tweedle, M. D., ....	Weatherly.
Centre, .....	G. F. Harris, M. D., .....	Bellefonte.
Clarion, .....	H. N. Hess, M. D., .....	Fryburg.
Clearfield, .....	S. M. Free, M. D., .....	DuBois.
Clinton, .....	R. B. Watson, M. D., ....	Lock Haven.
Columbia, .....	.....	.....
Crawford, .....	W. G. Johnston, M. D., ...	Titusville.
Cumberland, .....	R. L. Sibbet, M. D., .....	Carlisle.
Dauphin, .....	P. A. Hartman, M. D., ....	Harrisburg.
Delaware, .....	R. S. Maison, M. D., .....	Chester.
Elk, .....	W. L. Williams, M. D., ...	Ridgway.
Erie, .....	C. B. Kibler, M. D., .....	Corry.
Fayette, .....	.....	.....
Forest, .....	J. W. Morrow, M. D., ....	Tionesta.
Franklin, .....	P. B. Montgomery, M. D., .	Chambersburg.
Fulton, .....	A. D. Dalbey, M. D., .....	McConnellsburg.
Greene, .....	J. T. Adams, M. D., .....	Waynesburg.
Huntingdon, .....	A. B. Brumbaugh, M. D., .	Huntingdon.
Indiana, .....	N. Frank Ehrenfeld, M.D.,	Indiana.
Jefferson, .....	A. F. Balmer, M. D., .....	Brookville.
Juniata, .....	W. H. Banks, M. D., .....	Mifflintown.
Lackawanna, .....	H. V. Logan, M. D., .....	Scranton.
Lancaster, .....	W. Blackwood, M. D., ....	Lancaster.

County.	Inspectors.	P. O. Address.
Lawrence, .....		
Lehigh, .....	M. F. Cawley, M. D.,	Allentown.
Lebanon, .....	S. P. Heilman, M. D.,	Heilmandale.
Luzerne, .....	C. P. Knapp, M. D.,	Wyoming.
Lycoming, .....	A. Richter, M. D.,	Williamsport.
McKean, .....	B. Chadwick, M. D.,	Smethport.
Mercer, .....	T. M. Cooley, M. D.,	Sandy Lake.
Mifflin, .....	A. T. Hamilton, M. D.,	Lewistown.
Monroe, .....	W. E. Gregory, M. D.,	Stroudsburg.
Montgomery, .....	H. H. Whitcomb, M. D.,	Norristown.
Montour, .....	E. A. Curry, M. D.,	Danville.
Northampton, .....	T. C. Zulick, M. D.,	Easton.
Northumberland, .....	A. C. Clark, M. D.,	Sunbury.
Perry, .....	A. R. Johnston, M. D.,	New Bloomfield.
Philadelphia, .....	W. B. Atkinson, M. D.,	Philadelphia.
Pike, .....	E. B. Wenner, M. D.,	Milford.
Potter, .....	E. H. Ashcraft, M. D.,	Coudersport.
Schuylkill, .....	A. H. Halberstadt, M. D.,	Pottsville.
Snyder, .....	F. J. Wagenseller, M. D.,	Selinsgrove.
Somerset, .....	H. Garey, M. D.,	Berlin.
Sullivan, .....	Wm. Pratt, M. D.,	Dushore.
Tioga, .....	C. S. Logan, M. D.,	Arnot.
Union, .....	W. Leiser, M. D.,	Lewisburg.
Venango, .....	J. P. Strayer, M. D.,	Oil City.
Warren, .....	Wm. Robertson, M. D.,	Warren.
Washington, .....	C. B. Wood, M. D.,	Monongahela.
Wayne, .....	H. A. Plum, M. D.,	Hawley.
Westmoreland, .....	R. B. Hammer, M. D.,	Greensburg.
Wyoming, .....	B. E. Bidleman, M. D.,	Tunkhannock.
York, .....	I. C. Gable, M. D.,	York.

Engineer Inspectors.

Eastern District—William H. Boardman, C. E., Philadelphia.

Western District—Northern Division, James H. Harlow, C. E., Edgewood.

Western District—Southern Division, Thomas P. Roberts, C. E., Pittsburgh.

Bacteriologist.

Professor W. M. L. Coplin, M. D., Jefferson Medical College, Philadelphia.

Assistant Bacteriologist.

Western District—Thomas Turnbull, M. D., Allegheny.

Eastern District—Robert L. Pitfield, M. D., Philadelphia.

Monroe County—Richard Slee, M. D., Swiftwater.

Union County—Nelson F. Davis, Lewisburg.

#### Chemists.

Eastern District—Laboratory of Hygiene, University of Pennsylvania, Philadelphia.

Western District—Professor F. C. Phillips, Western University of Pennsylvania, Allegheny.

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#### Constitution.

The constitution of the State Board of Health and Vital Statistics of the Commonwealth of Pennsylvania is the act of Legislature establishing the board, approved June 3, 1885, of which the following is the correct text.

#### AN ACT

To establish a State Board of Health for the better protection of life and health, and to prevent the spread of contagious and infectious diseases in this Commonwealth.

Manner of appointment.

Number of members.

Term of service.

Section 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted by the authority of the same, That the Governor by and with the advice and consent of the Senate, shall appoint six persons, a majority of whom shall be physicians of good standing, graduates of regularly chartered and legally constituted medical colleges, and of not less than ten years' experience in the practice of their profession, and one of whom shall be a civil engineer, who, together with the secretary, the mode of whose appointment is hereinafter provided for, shall constitute and be designated as the State Board of Health and Vital Statistics of the Commonwealth of Pennsylvania. Of the six persons first appointed two shall serve for two years, two for four years and two for six years, from the first day of July next following their confirmation; and the Governor shall thereafter biennially appoint, by and with the advice and consent of the Senate, two persons of the same professions as those whose terms of office have just expired, to be members of said board, to hold their offices for six years from the first day of July next following

their confirmation, and until their successors are appointed, excepting the secretary, who shall continue in office as hereinafter provided; but any member may be reappointed. Any vacancy occurring in said board during a recess of the Legislature shall be filled by the Governor until the next regular session of the same.

Section 2. As soon as possible after the appointment of the first six persons as aforesaid, they shall meet in the office of the Secretary of the Commonwealth, and shall proceed, under the direction of the latter officer, to determine, by lot, which of them shall serve for the respective terms of two, four and six years. Before entering upon the duties of the office they shall take the oath prescribed for State officers by the Constitution of the State, and shall file the same in the office of the Secretary of the Commonwealth, who, upon receiving the said oath of office, shall issue to each a certificate of appointment for his respective term of office determined as aforesaid; upon receiving which they shall possess and exercise the powers and perform the duties of said board as defined in this act. Immediately after having taken the oath of office they shall organize by electing one of their number to be president, and by appointing a proper person, who shall be a physician of good standing, of not less than ten years' professional experience, and a graduate of a legally constituted medical college, to be secretary of said board, who shall hold his appointment until removed by the appointment of his successor or otherwise. The board may elect one of its own members secretary, in which case the vacancy thus created shall be filled by the Governor in the same manner as a vacancy caused in any other way. The president shall be elected annually. No member of the board, except the secretary, shall, as such, receive any salary; but the actual traveling and other expenses of any member while engaged on the actual duties of the board, shall be allowed and paid on presentation to, and approved by the Auditor General of an itemized account, with vouchers annexed.

Section 3. The secretary shall be the executive officer of the board, and shall have all the powers and privileges of a member of said board, except in regard to voting upon matters relating to his own office and duties as secretary. He shall receive an annual salary

Manner of organization.

Appointment of secretary.

Actual expenses of members to be paid.

Duties of Secretary.

Salary of Secretary.

of two thousand dollars, which shall be paid him in the same manner that salaries of other State officials are paid; and such necessary expenses as the Auditor General shall audit, on presentation of an itemized account with vouchers annexed and the certificate of the board, shall be allowed him.

Time and place  
of meetings.

Section 4. The said board shall meet at least once every six months, and may also hold special meetings as frequently as the proper and efficient discharge of its duties shall require, in the Capitol building at Harrisburg (unless otherwise ordered), and the rules and by-laws of the board shall provide for the giving of proper and timely notice of all such meetings to every member of the board. The Secretary of Internal Affairs shall provide and furnish such apartments and stationery as said board may require in the discharge of its duties. A majority of the members of the board shall, at any regular, called or adjourned meeting, organize and constitute a quorum for the transaction of business.

Duties and func-  
tions of board de-  
fined.

Section 5. The State Board of Health and Vital Statistics shall have the general supervision of the interests of the health and lives of the citizens of the Commonwealth, and especially study its vital statistics. It shall make sanitary investigations and inquiries respecting the causes of disease, and especially of epidemic diseases, including those of domestic animals, the sources of mortality, and the effects of localities, employments, condition, habits, food, beverages and medicine on the health of the people. It shall also disseminate information upon these and similar subjects among the people. It shall, when required by the Governor or the Legislature, and at such other times as it deems it important, institute sanitary inspections of public institutions or places throughout the State. It shall codify and suggest amendments to the sanitary laws of the Commonwealth and shall have power to enforce such regulations as will tend to limit the progress of epidemic diseases.

Powers of board.

Section 6. In cities, boroughs, districts and places having no local boards of health, or in case the sanitary laws or regulations in places where boards of health or health officers exist should be inoperative, the State Board of Health shall have power and au-

thority to order nuisances, or the cause of any special disease or mortality to be abated and removed, and to enforce quarantine regulations as said board shall direct.

Any person who shall fail to obey, or shall violate, such order shall, on conviction, be sentenced to pay a fine of not more than one hundred dollars at the discretion of the court.

Penalty for violation and neglect.

Section 7. It shall be the duty of the State Board of Health and Vital Statistics to have general supervision of the State system of registration of births, marriages and deaths, of prevalent diseases and of practitioners of medicine and surgery, to prepare the necessary methods, forms and blanks for obtaining and preserving such records, and to insure the faithful registration of the same in the several counties and in the Central Bureau of Vital Statistics at the Capitol of the State. The said board shall recommend such forms and amendments of laws as shall be deemed to be necessary for the thorough organization and efficiency of the registration of vital statistics throughout the State. The Secretary of the State Board of Health and Vital Statistics shall be the superintendent of registration of vital statistics as supervised by said board; the clerical duties and safe keeping of the bureau of vital statistics thus created shall be provided for by the Secretary of Internal Affairs, who shall also provide and furnish such apartments and stationery as said board shall require in the discharge of such duties.

Functions of board in registration.

Secretary of Internal Affairs to provide stationery and apartments.

Section 8. It shall be the duty of all health officers and boards of health in the State to communicate to said State Board of Health copies of all their reports and publications and also such sanitary information as may be requested by said Board. And said Board is authorized to require reports and information (at such times and of such facts, and, generally, of such nature and extent as its by-laws or rules may provide) from all public dispensaries, hospitals, asylums, infirmaries, prisons and schools, and from the managers, principals and officers thereof, and from all other public institutions, their officers and managers, and from the proprietors, managers, lessees and occupants of all places of public resort in the State; but such reports shall only be required concerning

Local boards of health and institutions to report to board.



matters or particulars in respect of which it may, in its opinion, need information for the proper discharge of its duties.

Scientific investigations.

Section 9. Said Board may, from time to time, engage suitable persons to render sanitary service or to make or supervise practical and scientific investigations and examinations requiring expert skill, and to prepare plans and reports relative thereto. But no more than two thousand dollars shall be expended in any one year for such special sanitary service.

Annual report.

Section 10. It shall be the duty of said board, on or before the first Monday of December, in each year, to make a report in writing to the Governor of this State upon the sanitary condition and the prospects of the State, and such report shall set forth the action of the said board and its officers and agents, and the names thereof, for the past year, and may contain other useful information pertinent to the objects for which it was created, and shall suggest any further legislative action or precaution deemed proper for the better protection of life and health; and the annual report of said Board shall also contain a detailed statement of the (State) Treasurer of all moneys paid out by or on account of said board, and a detailed statement of the manner of its expenditures during the year last past, but its total expenditures shall not exceed the sum of five thousand dollars in any one year.

So in P. L., probably a mistake of transcriber.

Appropriation.

Section 11. The sum of ten thousand dollars (\$10,000) is hereby appropriated from the Treasury for the purposes of this act and the expenditures properly incurred by the authority of said board and verified by affidavit, subject, however, to the limitations herein before imposed, and shall be paid by the Treasurer upon the warrant of the Auditor General.

Section 12. This act shall take effect immediately, and all acts or parts of acts inconsistent herewith shall be and are hereby repealed.

Approved June 3, 1885.

ROBERT E. PATTISON.

## BY-LAWS.

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The By-Laws of the State Board of Health and Vital Statistics of the Commonwealth of Pennsylvania are as follows:

### ARTICLE I.

#### Officers of the Board.

Section 1. The officers of the Board shall be a President and Secretary as directed by section two of the act establishing the Board.

Section 2. All elections shall be by ballot.

### ARTICLE II.

#### Duties of Officers.

Section 1. The President shall preside at the meetings of the Board, preserve order and perform such other duties as custom and parliamentary usage require. He shall be, ex-officio, a member of all committees.

Section 2. The Secretary shall keep the records and conduct the correspondence of the Board. He shall be custodian of all books, documents, furniture and other property belonging to the Board. He shall give proper and timely notice, in writing, of every regular and called meeting, to each member of the Board, and shall, as executive officer, perform such other duties as are assigned by the act establishing the Board, or by these by-laws, as the Board may from time to time direct. All communications from the Secretary to the Board shall be in writing.

### ARTICLE III.

#### Meetings.

Section 1. The regular meetings of the Board shall be held on the second Thursday in May, July and November, at Harrisburg (unless otherwise ordered). At the meeting in July the election of officers shall be held. At the meeting in November the annual report shall be adopted, and at the meeting in May a public address on some sanitary topic shall be delivered.

Section 2. Special meetings shall be called by the President, at such time and place as he shall designate, whenever requested in writing by three members of the Board, one of whom shall be the Secretary.

Section 3. A majority of the members of the Board shall at any

regular, called or adjourned meeting, organize and constitute a quorum for the transaction of business.

#### ARTICLE IV.

##### Order of Business.

Section 1. All meetings of the Board shall be called to order at the appointed hour by the President. In the event of his absence a chairman pro tempore shall be appointed.

Section 2. At regular meetings the business shall be conducted as follows:

1. The Secretary shall register the names of the members present.
2. The minutes of the last regular meeting shall be read.
3. The minutes of special meetings held since the last regular meeting shall be read.
4. Report of the Secretary.
5. Reports of standing committees.
6. Reports of special committees.
7. At the meeting in July, nomination and election of a president for the ensuing year; at the meeting in November, appointment of standing committees.
8. Unfinished business.
9. New business.
10. Adjournment.

Section 3. At special meetings the following shall be the order of business:

1. Registration of names of members present.
2. Reading of minutes, if called for.
3. Presentation of special subject.
4. Presentation of accounts.
5. Adjournment.

#### ARTICLE V.

##### Annual Report of the Secretary.

The Secretary shall, at the meeting in November, make a full report of his official acts during the year ending October 1, preceding, and accompany the same with recommendation of such measures as he shall deem necessary for the preservation of the public health and the faithful execution of the law, and this report shall constitute the basis of the report of the Board to be presented to the Governor on or before the first Monday of December in each year, in accordance with the requirements of section ten of the act constituting this Board.

#### ARTICLE VI.

##### Standing Committees.

Section 1. The following standing committees shall be appointed by the President of the Board at the meeting in November.

1. An executive committee.
2. A committee on registration and vital statistics.
3. A committee on preventable diseases, disinfection and supervision of travel and traffic.
4. A committee on water supply, drainage, sewerage, topography and mines.
5. A committee on public institutions and school hygiene.
6. A committee on adulterations, poisons, explosives and other special sources of danger to life and limb.
7. A committee on sanitary legislation, rules and regulations.

Section 2. Such papers, communications or other matter received by the Secretary as he may deem proper for the purpose, he shall forward to the chairman of the appropriate committee, after filing the titles and memoranda, which shall be recorded in the Secretary's office.

Section 3. All reports of committees shall be in writing.

#### ARTICLE VII.

##### Finances.

Section 1. All accounts against the Board shall be filed with the Secretary, and may be presented at any meeting of the Board, when they shall be acted on in open session; and all accounts allowed shall be endorsed "Approved by order of the State Board of Health and Vital Statistics," and shall be endorsed by the President and Secretary.

Section 2. The Secretary shall record in a book reserved for that purpose, all accounts of expenditures ordered or made by the Board and its several members, and shall, before presenting any bill, account or voucher to the Auditor General, cause a copy of the same to be recorded, and shall have stamped upon such voucher, account or bill the audit and date, as the executive committee shall provide.

#### ARTICLE VIII.

##### Executive Committee.

Section 1. The executive committee shall consist of not less than three members, including the Secretary of the Board, who shall be secretary of the committee.

Section 2. It shall have the general supervision of the finances, purchases, expenses and publications of the Board.

Section 3. Its office shall be in the city of Philadelphia until otherwise ordered.

Section 4. It shall hold meetings at least quarterly, and as much oftener as it shall deem necessary, and shall meet on the call of the chairman.

Section 5. With the approval of the Board or of the executive committee, the Secretary shall make a requisition upon the Secretary of Internal Affairs for such stationery, printed forms, clerical labor, apartments and furniture as shall be needed for the use of the Board.

Section 6. No purchases shall be made or expenses incurred except by order of the Board or of the executive committee; and the executive committee shall not have power to incur any indebtedness beyond the amount appropriated by law.

#### ARTICLE IX.

##### Rules of Order.

In conducting the business of the meetings of the Board, the parliamentary rules governing the Legislature of the State of Pennsylvania shall be adopted so far as they are applicable to its deliberations.

#### ARTICLE X.

##### Seal.

The seal of the Board shall be circular in shape, bearing on the circumference the words, "State Board of Health. Pennsylvania. 1885. Salus Populi Suprema Lex," and in the center the coat-of-arms of the Commonwealth.

#### ARTICLE XI.

##### Amendments.

These by-laws may be altered or amended at any regular meeting of the Board by a two-thirds vote of the members present.

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### REGULATIONS OF THE BOARD.

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#### (R. I.)

##### Regulation in Regard to the Abatement and Removal of Nuisances.

Whenever a complaint is made in writing to the Secretary of the Board of the existence of a nuisance, he shall forthwith, as executive officer of the Board, investigate the matter and shall determine whether the alleged nuisance is detrimental to the public health, or the cause of any special disease or mortality; and in case he shall so find, then he shall notify the owner, agent or occupier of said premises, in writing, of such finding, and the executive officer shall thereupon order and direct the abatement and removal of the same within ——— days; and in the event of the failure of said owner,

agent or occupier of said property to abate and remove the nuisance, then the executive officer may proceed to abate and remove the same, and may employ all the force necessary to do so, and shall proceed by warrant, arrest and indictment to convict the party failing to obey said order of abatement and removal.

(R. II.)

**Provisional Regulations for Preventing House Yards, Streets, Slaughter Houses, Stock Yards, Hog Pens, Bone-Boiling and Fat Rendering and Other Similar Establishments From Being or Becoming Prejudicial to the Public Health.**

**Nuisances Defined.**

1. Whatever is dangerous to human life or health, and whatever renders soil, air, water or food impure or unwholesome, are declared to be nuisances and to be illegal, and every person having aided in creating or contributing to the same, or who may support, continue or retain any of them, shall be deemed guilty of a violation of these regulations.

**House Refuse, Garbage, Etc.**

2. No house refuse, offal, garbage, dead animals, decaying vegetable matter, or organic waste substance of any kind, shall be thrown upon any street, road, ditch, gutter or public place, and no putrid or decaying animal or vegetable matter shall be kept in any yard, house, cellar or adjoining out-buildings for more than twenty-four hours.

**Noxious Trades.**

3. No person or company shall erect or maintain any manufactory or place of business dangerous to life or detrimental to health, or where unwholesome, offensive or deleterious odors, gas, smoke, deposit or exhalations are generated, within one mile of the limits of any city or borough, without the permit of the board of health of said city or borough, and all such establishments shall be kept clean and wholesome so as not to be offensive or prejudicial to public health, nor shall any offensive or deleterious waste substance, refuse or injurious matter be allowed to accumulate upon the premises or be thrown or be allowed to run into any public waters, stream, water course, street, road or public place. And every person or company conducting such manufacture or business shall use the best approved and all reasonable means to prevent the escape of smoke, gases and odors, and to protect the health and safety of all operatives employed therein.

4. The business of bone and horse boiling shall not be allowed, unless conducted under cover, the building to be provided with smoke consumers, and a due regard to be had to cleanliness in the

disposition of the offal. No bone boiling establishment or depository of dead animals shall be kept or erected in any part of this Commonwealth which is not under the jurisdiction of the local board of health, without a permit from the board of health of the nearest city or borough.

5. No permit shall be granted to any person or persons to carry on the business of boiling bones of dead animals until after a careful inspection of the locality, buildings and apparatus, and of the plans for conducting the business, by an accredited inspector of the State Board of Health, or, if such inspector be not accessible, then by an inspector appointed for the purpose by the board of health of the nearest city or borough.

6. No bone boiling establishments or depositories of dead animals shall be kept or erected in or near a thickly inhabited neighborhood.

7. The floors of all bone boiling establishments and depositories of dead animals shall be paved with asphalt or with brick or stone, well laid in cement, or with some other impervious material, and shall be well drained. All such establishments shall have such an adequate water supply as will enable thorough cleanliness to be maintained.

8. The boiling of bones of dead animals, etc., shall be conducted in steam-tight kettles, boilers or cauldrons, from which the foul vapors shall first be conducted through scrubbers or condensers, and then into the back part of the ash-pit of the furnace fire, to be consumed, or by other apparatus equally efficient in preventing or counteracting the offensive effluvia.

9. When bones are being dried after boiling, they shall be placed in a close chamber, through which shall be passed, by means of pipes, large volumes of fresh air, the outlet pipe terminating in the fire pit.

10. All proprietors of bone boiling establishments not having, on the first day of July, 1886, permits to carry on the business, and violating these regulations, shall be liable to prosecution for failing to obey this order and also to an indictment at common law for creating and maintaining a nuisance.

11. The permit clerk of each local board of health shall have provided a book in which to enter the names of all persons engaged in the business of boiling bones and having depositories of dead animals; also, the location of works and appliances as reported by the inspector, whether licensed or not, the number and date of permit, and remarks.

12. No person or persons, without the consent of the board of health of the nearest city or borough, shall build or use any slaughter house within the limits of this Commonwealth; and the keeping and slaughtering of all cattle, sheep and swine and the preparation



and keeping of all meats, fish, birds or other animal food, shall be in the manner best adapted to secure and continue their wholesomeness as food; and every butcher or other person owning, leasing or occupying any place, room or building wherein any cattle, sheep or swine have been or are killed or dressed, and every person being the owner, lessee or occupant of any room or stable wherein any animals are kept, or of any market, public or private, shall cause such place, room or building, stable or market, to be thoroughly cleansed and purified, and all offal, blood, fat, garbage, refuse and unwholesome and offensive matter to be removed therefrom at least once in every twenty-four hours after the use thereof for any of the purposes herein referred to, and shall also at all times keep all wood-work, save floors and counters, in any building, place or premises aforesaid, thoroughly painted or whitewashed; and the floors of such building, place or premises shall be so constructed as to prevent blood or foul liquids or washings from settling in the earth beneath.

13. No blood pit, dung pit, offal pit or privy well shall remain or be constructed within any slaughter house. Any one offending against this rule shall be guilty of creating and maintaining a nuisance prejudicial to the public health, and shall be required to remove the nuisance within ten days from the date of notice.

14. The owners, agents or occupiers of all slaughter houses are required, during the months of June, July, August and September to distribute twice in each week not less than twenty-five pounds of chloride of lime about the premises, and also to remove the contents of any manure-pit or manure pile on the premises once in each week, the said premises and contents of manure pits being hereby declared to be nuisances prejudicial to the public health, unless subject to frequent disinfection and cleaning as herein indicated.

15. All constables and supervisors are enjoined, and all citizens are respectfully desired, to give information to the State Board of Health of any violation of the health laws, or of the regulations of the board, so that the sanitary measures adopted by the latter to ensure the health of the people may be fully carried out, and all offenders promptly punished.

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Note.—Section six of the act of June 3, 1885, confers upon the State Board of Health power and authority to order nuisances to be abated and removed in cities, boroughs, districts and places having no local board of health. Any person violating or failing to obey such order becomes liable, on conviction, to a fine of one hundred dollars.

(R. III.)

Regulations in Regard to the Sanitary Supervision of Travel and Traffic.

Upon satisfactory information of the approach to, or transit through the Commonwealth of Pennsylvania, of infected persons or goods, it shall be the duty of the secretary, as executive officer of the



board, to cause the same to be stopped at the State line, or, if found within the limits of the State, to cause such persons or goods to be removed from cars, stages, vessels, boats or other conveyances, and securely isolated and disinfected; and he may, if, in his judgment, the emergency is such to demand it, call a meeting of the committee on travel and traffic, to which his action shall be submitted, with his reasons therefor, in writing. But in cases coming under the jurisdiction of national or municipal quarantine authorities, he shall co-operate with said authorities in all such action.

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(R. IV.)

**REGULATION OF TRAVEL AND TRAFFIC.**

**Regulations in Regard to Disinterment and Transportation of Dead Bodies.**

**Disinterment of Bodies.**

Rule I. The removal of any body from its place of original interment is declared to be a nuisance dangerous to the public health, and is prohibited unless the same be done under the direction, and by permission of the State or local board of health.

Rule II. The above rule applies as well to the removal of a body from one grave or vault to another in the same cemetery as to its removal to another burial ground or place.

Rule III. The removal of dead bodies from any burial ground situated within the built-up portion of any city or borough is forbidden between April 1 and October 15.

Rule IV. The disinterment of the body of any person who died of any contagious or infectious disease is strictly prohibited, unless by special authority and upon such conditions as the State or local board of health may impose.

Rule V. The disinterment of bodies of persons who have died of Asiatic cholera, yellow fever, epidemic cerebro-spinal meningitis or spotted fever, small-pox or varioloid, diphtheria, or membranous croup, relapsing fever, typhus or ship fever, or scarlet fever is prohibited except by special permission of the State or local board of health: Provided, however, That no such permit shall be granted within ten years after the interment of such person.

Rule VI. When a body dead of any of the diseases mentioned in the preceding rule is to be disinterred the following precautions shall be strictly observed: (a) No one shall be present at the disinterment but those necessary to perform the labor and one male relative of the deceased. (b) A hermetically sealed zinc-lined box sufficiently large to contain the box, coffin or casket already in the grave shall be in readiness to receive the latter. (c) When within

six inches of the top of the receptacle containing the body, the earth shall be saturated with one-fifth per cent. solution (1-500) of the bi-chloride of mercury. (d) The receptacle containing the remains shall on no account be opened, but shall be at once placed in the box provided as above and hermetically sealed, and said box shall not be opened on arriving at the place of destination.

#### Transportation of Bodies.

Rule I. The transportation of bodies of persons who shall have died from small-pox, Asiatic cholera, typhus fever, diphtheria or yellow fever is strictly forbidden.

Rule II. From October 15 to April 1, all other dead bodies may be transported without restriction, except those who shall have died of scarlet fever, typhoid fever or measles, which must be enclosed, as prescribed in Rule III.

Rule III. From April 1 to October 15 all dead bodies, when presented for transportation, must be enclosed in air-tight zinc, copper or lead-lined wooden boxes, or in air-tight iron caskets; or, if in any other form of coffin, said coffin must be in a hermetically sealed box, enclosed in a manner satisfactory to the local board of health or health officer.

Rule IV. No person or article which has been exposed to the contagion can accompany the body.

Rule V. Every dead body must be accompanied by a physician's certificate of death, and a certificate from the shipping undertaker that the body has been prepared for transportation in accordance with the rules of the State Board of Health of the Commonwealth of Pennsylvania.

Rule VI. In receiving any dead body which has been shipped from beyond or within the States of New York, New Jersey, Delaware, Maryland, West Virginia or Ohio, or the Province of Ontario, the rules of the State or provincial boards of health of the same must be respected, and their transit permits will be honored without subjecting the body to delay, providing such rules do not conflict with any of the preceding rules in these regulations.

Rule VII. The following shall be the form of a transit permit for the transportation of a dead body within, into, or out of the limits of the Commonwealth of Pennsylvania.

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Note.—The rules and regulations of the State Board of Health are laws to be obeyed by every individual in the State.

Coupon No. 1, to Transit Permit of  
who died at  
Before this body leaves  
the Carrier or Trans-  
portation Agent will tear off this Coupon. If other-  
wise detached from the permit the Coupon must not  
be received. (See back of Permit.)

(Name)

Coupon No. 2, to Transit Permit of  
who died at  
Before this body leaves  
the Carrier or Trans-  
portation Agent will tear off this Coupon. If other-  
wise detached from the permit the Coupon must not  
be received. (See back of Permit.)

(Name)

(The size of this Permit without the stub is 10x4 inches.)

[To be issued by any State or Local Health Official]  
Commonwealth of Pennsylvania.

## TRANSIT PERMIT.

[For Public  
Carriers.]

Office of ..... County 189

Permission is hereby given to remove the remains of  
aged, ..... who died at  
(City, borough, or township and county.)  
on the ..... day of ..... 189; the cause of death being  
and a Transit Permit being asked for burial at .....  
in the State of .....

(Signed by)

Name of Undertaker or person  
in charge of the Transit.

(Official title)

(P. O. address.)

THIS PERMIT MUST IN ALL CASES ACCOMPANY  
THE BODY TO ITS DESTINATION.

## TRANSIT.

[Stub to be retained by official issuing Permit.]

## TRANSIT PERMIT.

1. Issued to, .....
2. Name of Deceased, .....  
(If a minor, give parents' names.)
3. Interment at, .....
4. Date of Death, ..... Age, .....
5. Place of Death, .....
6. Cause of Death, .....
7. Certified by, ..... M. D.

## TRANSIT PERMIT.

Issued at ..... Co., Pa.

Issued by, .....

To whom issued, .....

Name of Deceased, .....

Date of Death, .....

Name of person or Carrier in charge, .....

Date of Transit, .....

## (BACK OF ABOVE PERMIT.)

Railroad and Steamboat Agents, Ferry-Masters and all Carriers that convey the remains  
over the limits of the county where the death occurred will retain one of the Coupons hereto at-  
tached, and deliver the body only to the persons holding this permit. The name of the deceased  
must appear on the Coupons, which will be returnable to the city or place through or out of which  
the body is first conveyed, or to such authority as may be directed by the person who issued the  
Permit.

The 1st Coupon should be taken by the carrier who transports the body from the county where  
the death occurred, and the 2d should be taken by Carrier or Agent of Transportation upon the  
route beyond said county, and it may be so taken at either terminus of the distance over which  
the second stage of transportation extends, as the local sanitary regulations may require, but  
whoever detaches and takes said 2d Coupon must write across the back of the Permit, as well as  
upon the 2d Coupon itself in the space at the left of these directions, as follows:

2d Coupon taken at ..... by, .....  
Such an indorsement will answer instead of further coupons whenever the body is conveyed,  
and the Permit is to be surrendered at the place of burial. It, as well as every Coupon, should be  
preserved.

2d Coupon taken at, .....

by, .....

SECOND } taken at, ...  
COUPON. } by ...

FIRST COUPON.

(R. V.)

Regulation in Regard to the Inter-State Notification of the Existence of Infectious and Contagious Diseases.

The following are the resolutions adopted by the International Conference of the Boards of Health, at Toronto, October 6, 1886, with slight verbal modifications:

Whereas, It is necessary for the protection and preservation of the public health that prompt information should be given of the existence of cholera, yellow fever or small-pox; be it Resolved—

1. That it is the sense of the National Conference of State Boards of Health, that it is the duty of each state and provincial board of health within whose jurisdiction any of said diseases may occur to furnish immediate information of the existence of such disease to boards of health of neighboring states and provinces, and to local boards in such states as have no central board, in which the duty of notification shall lie upon the local boards.

2. That upon the prevalence of rumor of the existence of pestilential disease in any state or province, if positive definite information thereon be not obtainable from the proper health authorities, this conference holds that the health officials of another state are justified in entering the before-mentioned state or province for the purpose of investigating and establishing the truth or falsity of such reports.

3. That whenever practicable, the investigations undertaken under the preceding section shall be made with the co-operation of the state or local health authorities.

4. That any case which presents symptoms leading to serious suspicion of the existence of one of the aforementioned diseases shall be treated as suspicious, and reported as provided for in cases in which the diagnosis is certain.

5. That any case respecting which reputable and experienced physicians disagree as to whether the disease is or is not pestilential, shall be reported as suspicious.

6. That any suspected case respecting which efforts are made to conceal its existence, full history and true nature, shall be deemed suspicious and so reported.

7. That in accordance with the provisions of the foregoing resolutions, the boards of health of the United States and Canada represented at this conference, do pledge themselves to an interchange of information as herein provided.

Addendum to regulation in regard to the inter-state notification of contagious and infectious diseases, adopted by the National Conference of State Boards of Health at Washington, September 8, 1887, and by the State Board of Health of Pennsylvania, November 9, 1887.

1. All communicable diseases hereinafter mentioned, prevalent in certain areas, or which tend to spread along certain lines of travel shall be reported to all state and provincial boards of health within said areas or along said lines of communication.

2. In the instance of small-pox, cholera, yellow fever and typhus, reports shall be at once forwarded, either by mail or telegraph, as the urgency of the case may demand.

3. In the instance of diphtheria, scarlet fever, typhoid fever, anthrax or glanders, weekly reports, when possible, shall be supplied in which shall be indicated as far as known the places implicated and the degree of prevalence.

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(R. VI.)

Regulation for the Better Preservation of the Public Health, and to Limit the Progress of Epidemic (Contagious and Infectious) Diseases.

In virtue of the powers conferred by the act of Assembly, of June 3, 1885, sections five and six, P. L. 56 of the Laws of the Commonwealth of Pennsylvania, be it ordered by the State Board of Health and Vital Statistics of the Commonwealth of Pennsylvania, and it is hereby ordered by the authority of the same:

Nuisances defined.

Section 1. That whatever is dangerous to human life or health, whatever renders the air or food or water or other drink unwholesome, and whatever building, erection or part of cellar thereof is overcrowded, or not provided with adequate means of ingress and egress or is not sufficiently supported, ventilated, sewered, drained, cleaned or lighted, are declared to be nuisances, and to be illegal; and every person having aided in creating or contributing to the same, or who may support, continue or retain any of them shall be deemed guilty of a violation of this regulation, and shall be liable to a penalty of not more than one hundred dollars.

House refuse, garbage, etc., not to be exposed.

Sec. 2. No house refuse, offal, garbage, dead animals, decaying vegetable matter or organic waste substance of any kind shall be thrown on any street, road, ditch, gutter or public place, and no putrid or decaying animal or vegetable matter shall be kept in any yard, house, cellar or adjoining out-building or grounds for more than twenty-four hours.

Sec. 3. No pig pen shall be built or maintained within one hundred feet of any well or spring of water used for drinking purposes, or within thirty feet of any street or any inhabited house, or unless constructed in the following manner, viz: So that the floor or floors of the same shall be not less than two feet from the ground, in order that the filth accumulating under the same may be easily removed.

Pig pens to be properly constructed and kept clean.

Sec. 4. No privy vault, cesspool, or reservoir into which a privy, water closet, cesspool, stable or sink is drained, unless it is water tight, shall be constructed, dug or permitted to remain within one hundred and fifty feet of any well, spring or other source of water used for drinking or culinary purposes; unless the surface of such vault, cesspool or reservoir is at a lower level than the bottom of such well. Earth privies and earth closets, with no vault, pit or depression below the surface of the ground, shall be excepted from this regulation, but sufficient dry earth or coal ashes must be used to absorb all the fluid part of the deposit.

Privies not to remain near wells of drinking water.

Sec. 5. All sewer drains shall be water tight.

Sec. 6. No sewer drain shall empty into any lake, pond, dam, reservoir or other collection of water used for drinking purposes or into any standing water.

Sewer-drains not to contaminate water supply.

Sec. 7. All pipes connecting a water closet with a soil pipe shall be trapped, each separately. All waste pipes shall be trapped, each separately, and close to the connections with each bath, sink, bowl or other fixture, unless adequate provision is made for downward ventilation through said water pipes, in which case one trap may serve for several fixtures.

Sec. 8. All soil pipes shall be carried at their full size through the roof and left open. A provision shall also be made for admitting air to the house-drain side of the main trap, if such trap exists.

Sec. 9. The joints in vitrified pipes shall be carefully cemented under and around the pipe, and the joints in cast iron pipes shall be run and calked with lead.

Sec. 10. All changes in direction shall be made with curved pipes. All joints and pipes shall be made airtight.

Sec. 11. The following named diseases are declared to be communicable and dangerous to the public health, viz: Small-pox (variola, varioloid), cholera (Asiatic or epidemic), scarlet fever (scarlatina, scarlet

Diseases dangerous to public health enumerated.

rash), measles, diphtheria (diphtheritic croup, diphtheritic sore throat), typhoid fever, typhus fever, yellow fever, spotted fever (cerebro-spinal meningitis), relapsing fever, epidemic dysentery, hydrophobia, (rabies), glanders (farcy), tuberculosis (consumption), and leprosy, and shall be understood to be included in the following regulations, unless certain of them only are specified.

Householders required to report.

Sec. 12. Whenever any householder knows that any person within his family or household has a communicable disease, dangerous to the public health, he shall immediately report the same to the school board, giving the street and number, or location of the house.

Physicians required to report.

Sec. 13. Whenever any physician finds any person whom he is called upon to visit has a communicable disease, dangerous to the public health, he or she shall immediately report the same to the school board giving the street and number, or location of the house, on the receipt of which report the said board shall immediately notify the teacher or principal of every school in the district, instructing said teachers or principals to dispense with the attendance of all pupils residing in the family in which such disease exists. No physician who may, in good faith in obedience to this regulation, report a case as one of communicable diseases which subsequently proves not to be such, shall be liable to a suit for damages for such error in reporting. It shall be the duty of such physician and of all other attendants upon persons affected with such diseases to avoid exposure to the public of any garments or clothing about their own persons that may have been subjected to the risk of infection.

School teachers to be notified.

Physicians not to be sued for mistakes in obeying this regulation.

Exposure of infected persons or things forbidden.

Sec. 14. No person shall, unless by permit of a board of health, carry or remove from one building to another any patient affected with any communicable disease, dangerous to the public health. Nor shall any person, by any exposure of any individual so affected, or of the body of such individual, or of any article capable of conveying contagion or infection, or by any negligent act connected with the case or custody thereof, or by a needless exposure of himself or herself, cause or contribute to the spread of disease from any such individual or dead body.

Funeral after infectious diseases forbidden.

Sec. 15. There shall not be a public or church funeral of any person who has died of Asiatic cholera, smallpox, typhus fever, diphtheria, yellow fever, scarlet



fever or measles, and the family of the deceased shall in all such cases limit the attendance to as few as possible, and take all precautions possible to prevent the exposure of other persons to contagion or infection; and the person authorizing the public notice of death of such person shall have the name of the disease which caused the death appear in such public notice.

Public notice of cause of death required.

Sec. 16. No person suffering from or having very recently recovered from, small-pox, scarlet fever, diphtheria, yellow fever or measles shall expose himself, nor shall any one expose a person under his charge in a similar condition, in any public conveyance, without having previously notified the owner or person in charge of such conveyance of the fact of such condition as above stated. And the owner or person in charge of such conveyance must not, after the entry of any person so infected into his conveyance, allow any other person to enter it without having sufficiently disinfected it.

Public conveyances not to be infected.

Infected conveyances not to be used until disinfected.

Sec. 17. No person shall let or hire any house or room in a house in which a communicable disease, dangerous to the public health, has recently existed, until the room or house and premises therewith connected have been disinfected and for the purpose of this section the keeper of a hotel, inn or other house for the reception of lodgers, shall be deemed to let or hire part of a house to any person admitted as a guest into such hotel, inn or house.

Infected houses or rooms not to be let.

Sec. 18. Members of any household in which small-pox, diphtheria, scarlet fever or measles exist shall abstain from attending places of public amusement, worship or education, and, as far as possible, from visiting other private houses.

Isolation of families required.

Sec. 19. The clothing, bed-clothing and bedding of persons who have been sick with any communicable disease, dangerous to the public health, and the rooms which they have occupied during such sickness, together with their furniture, shall be disinfected as directed in the circulars of this Board.

Disinfection required.

Sec. 20. No animal affected with a communicable disease, dangerous to the public health, shall be brought within the limits of this Commonwealth, and the bodies of such animals dead of such disease or killed on account thereof, shall be buried with quicklime under four feet of earth or burned, but shall not

Infected animals to be excluded.



be buried within five hundred feet of any residence or of any source of water supply.

Milk not to be adulterated.

Sec. 21. No milk which has been watered, adulterated, reduced or changed in any respect from its natural condition by the addition of any foreign substance, shall be held, kept or offered for sale.

No unwholesome food to be sold.

Sec. 22. No meat, fish, birds, fowls, fruit, vegetables, milk and nothing for human food, not being then healthy, fresh, sound, wholesome, fit and safe for such use, nor any animal or fish that died by disease, and no carcass of any calf, pig or lamb, which at the time of its death was less than three weeks old, and no meat therefrom shall be brought within the limits of this Commonwealth or offered or held for sale as food.

Cellars to be cleaned.

Sec. 23. It shall be the duty of the occupant of every house, in the month of May, in each and every year, to clean the cellars thereof of all dirt, vegetables and other impure matter calculated to engender disease, and to cause them to be thoroughly whitewashed with fresh lime.

Vaccination of school children required.

Sec. 24. No pupil shall be allowed to attend the public schools in this Commonwealth who has not been vaccinated successfully within seven years.

Period of isolation established for school children.

Sec. 25. No parent, guardian or master, in whose house or family there shall have been a communicable disease, dangerous to the public health, shall permit any child residing in said house or family to attend any public, private or Sunday school, after the cessation of said disease, within a period of ten days after the house shall have been thoroughly disinfected and cleaned. And it shall be the duty of school boards to have this section printed on cards, mentioning the names of diseases declared communicable and dangerous to the public health in section thirty-one of this regulation, and posted in every school room, and it shall be the duty of each teacher to read the section to the school at least once a month and whenever any epidemic shall appear.

Children to be instructed in regard to danger of infection.

Sextons, cemetery keepers, etc.

Sec. 26. Every person who acts as a sexton or undertaker, or cemetery keeper, or has the charge of any tomb, vault, burying ground or other place for the reception of the dead, or where the bodies of any human beings are deposited, shall so conduct his business and so care for any such place above named, as to avoid detriment or danger to public health; and every person

undertaking preparations for the burial of a body dead from communicable diseases as hereinbefore enumerated, shall adopt the precautions prescribed in regulation IV of this Board. No dead body shall be exhumed and removed between the months of May and October inclusive, and nobody dead from any contagious or infectious disease shall be exhumed and removed unless by special authority and upon such conditions as the State Board of Health may impose.

Sec. 27. Every person violating any section of this regulation is liable for every such offense, upon conviction before any court, to a fine of not more than one hundred dollars, at the discretion of the court.

Penalties to be inflicted.

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(R. VII.)

Regulation for the Prevention of Blindness.

Whenever, in any city, borough, village or place in this State having no health authority of its own, any nurse, midwife or other person, not a legally qualified practitioner of medicine, shall notice inflammation of the eyes or redness of the lids in a new-born child under his or her care, it shall be the duty of such person to report the same to some legally qualified practitioner of medicine, within twelve hours of the time the disease is first noticed.

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(R. VIII.)

Regulation for the Enforcement of Domiciliary Quarantine and Closure of Schools.

Whenever the Secretary shall have satisfactory information that any of the following diseases, viz: small-pox, varioloid, scarlet fever, diphtheria, yellow fever, typhus fever or Asiatic cholera is epidemic, or threatens to become epidemic in any city, borough, district or place having no local board of health, or in which the sanitary laws or regulations are inoperative, he shall have authority, as executive officer of the Board, to issue a proclamation in the name of the Board declaring such disease epidemic, and to order and enforce such measures in the way of quarantine, isolation of the sick, vaccination, disinfection, and the closure of schools, public and private, religious and secular, as in his judgment may be necessary to stamp out the infection.

## (R. IX.)

**Regulation Authorizing the Secretary to Place, or Cause to be Placed, Placards Upon Houses in Which Certain Communicable Diseases Exist.**

Section 1. Whenever the Secretary shall have satisfactory information that any of the following diseases: cholera, small-pox (variola or varioloid), scarlet fever (scarlatina), typhus fever, yellow fever, relapsing fever, diphtheria (diphtheritic croup), membranous croup or leprosy exists in any city, borough, district or place having no local board of health, or in which the sanitary laws or regulations are inoperative, he shall have authority to place or cause to be placed, in a conspicuous place or places upon or near the house or premises in which said case may be located a placard or placards upon which shall be printed in large letters the name of the disease from which the person or persons in said house or premises may be suffering, as aforesaid, as the case may be: Provided, That variola or varioloid shall be placarded as small-pox, and that diphtheritic croup and membranous croup shall be placarded as diphtheria, and that scarlatina shall be placarded as scarlet fever, and said placard or placards shall remain thereon until such time as the rules and regulations established by this Board regarding the destruction or disinfection of infected bedding, clothing or other articles which have been exposed to infection, and the disinfection of houses and premises have been fully complied with: Provided, That, in addition to the placarding aforesaid, or in lieu of the same, the Secretary may place or cause to be placed a guard or guards upon said house or premises.

Section 2. The head of the family occupying any house or premises upon or near which said placard or placards aforesaid may be placed, shall, upon conviction before any mayor, burgess, alderman, police magistrate or justice of the peace of the city, borough or township in which said offense was committed be liable for the fine or penalty provided by the act of Assembly of June 18, 1895, in any case where such placard or placards are removed, disturbed, covered up, taken down or destroyed with his or her knowledge or consent before the time provided by section one of this regulation; said fine to be not less than five nor more than one hundred dollars, in default of payment whereof such person or persons so convicted shall undergo an imprisonment in the jail of the proper county for a period not exceeding sixty days.

## (R. X.)

**Regulation Requiring Burials to be at a Certain Depth Below the Surface of the Ground.**

Section 1. The burial of a body at an insufficient depth below the surface of the ground is hereby declared to be a nuisance prejudicial to the public health.

Section 2. In all cities, boroughs, districts and places having no local board of health, no body shall be buried at a less depth than six feet below the surface of the ground in populous districts, or less than four feet below the surface of the ground in rural districts.

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**(R. XI.)****Regulation for the Disinfection of the Persons, Excreta, Effects and Dwellings of Those Sick with Communicable (Contagious and Infectious) Diseases.****To Disinfect in the Sick-room.**

1. All glasses, cups or other vessels used by the patient shall be cleansed in boiling water before being used by others. And all foods and drinks touched and not consumed by the sick shall be burned or buried.

2. The discharge from the bowels and from the kidneys shall be received on their very issue from the body into vessels charged with disinfectants, and, after thorough disinfection, emptied into a closet connecting with a sewer, or, in the country, buried at least one hundred feet from any well or running stream. In no case shall they be thrown on the surface of the ground or into a running stream of water. Rags and paper which have become contaminated with any discharge shall be burned at once in a strong fire. It is well, in all contagious diseases, to place a piece of rubber cloth under the patient to prevent the discharges from soaking into the bed.

3. All articles of the patient's clothing, all sheets, towels, napkins, bandages or sponges used about the sick, must, before being taken from the sick room, be thrown into a tub containing several gallons of solution of chloride of lime (standard solution No. 1), and remain in it three hours. Never carry any dry clothes from the sick room without disinfection. After disinfection they must be thoroughly boiled.

5. After death the body must at once be wrapped in a sheet saturated with a solution of corrosive sublimate (standard solution No. 2) and buried as soon as possible.

6. Burn as many of the articles which have been about the sick as possible.

7. Standard Disinfecting Solution, Recommended by the State Board of Health.

1. Standard Solution No. 1.—Dissolve chloride of lime or bleaching powder of the best quality (containing at least twenty-five per cent. of available chlorine) in soft water in the proportion of four ounces (a quarter of a pint) to the gallon.

\*2. Standard Solution No. 2.—Dissolve corrosive sublimate and permanganate of potash in soft water in the proportion of two drachms (a heaping teaspoonful) of each to the gallon.

3. Standard Solution No. 3.—To one part of hypochlorite of soda add five parts of soft water.

4. Standard Solution No. 4.—Dissolve corrosive sublimate in water in the proportion of four ounces to the gallon. One fluid ounce (two tablespoonsful) of this solution to the gallon of water is sufficiently strong. Articles should be left in it for two hours. One gallon of standard solution No. 1, may also be mixed with nine gallons of water, and used in the same way. No article should be allowed to leave the infected room until it has been either disinfected or boiled.

8. To Disinfect Discharges from the Patient.

Use standard solutions, Nos. 1, 2 or 3, keeping a pint of the solution used constantly in the vessel ready for any emergency. Let the discharge be passed directly into the solution, then let a pint more of it be added, and let the whole stand some time to be thoroughly acted upon before being thrown into the sewer or being buried. Ordinary whitewash, freshly made or preserved by pouring a thin film of coal oil on its surface, is also very useful for this purpose. These discharges should never be thrown into the privy or cesspool, nor into a running stream, nor on the surface of the ground.

9. To Disinfect Clothing, Towels, Napkins, Bedding and Such Textile Fabrics as Can Be Washed.

Burn as much as possible. Use standard solution No. 4, one ounce to the gallon of water, or use one gallon of solution No. 1 in nine gallons of water. Let the goods soak in the solution for at least three hours before they leave the room. Stir them up so that the solution may get all through the goods. After disinfection boil the goods thoroughly.

10. To Disinfect Water Closets, Urinals, Sinks and Cesspools.

5. Carbolic Acid Solution.—Mix one pint of carbolic acid with two and a half gallons of water.

Standard Solution No. 4, diluted with three parts of water, may also be used in the proportion of one gallon (of the solution) to every

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\*Note.—This solution is highly poisonous. 2. It requires a contact of one hour to be efficient.  
3. Destroys lead pipes. 4. It is without odor.  
Corrosive sublimate solution should be kept in wooden or crockery vessels.

four (estimated) of the contents of the vault. Standard solution No. 1 would require to be used gallon for gallon of the material to be disinfected. Dry chloride of lime may be sprinkled over the contents of a privy, or standard solution No. 2 may be made up by the barrel, and four or five gallons be applied during an epidemic.

#### **To Disinfect the Room After Death or Recovery.**

The room must be vacated. The paper should be carefully scraped from the walls. Thorough ventilation for several days, and thorough washing of all surfaces with one of the disinfecting solutions, say one pint of standard solution No. 4 to four gallons of water, or a quarter of a pint of solution of hypochlorite of soda to a gallon of water must be effected. The walls and ceiling, if plastered, should be washed with this solution and then whitewashed. All dust must be carefully washed (not brushed or swept) away from ledges, cracks corners and crevices.

#### **Sulphur Fumigation.**

To use this effectively, two pounds of sulphur should be burned in a room ten feet square. Every opening in the room—flues, doors, windows, cracks and crevices—must be closed, except the door by which the disinfector is to escape; closet doors and bureau drawers should be opened wide, and all woolen articles which have been in the room during the sickness hung on lines, being spread out and opened up as much as possible. The sulphur is to be burned in an iron kettle or other vessel set in a tub containing a little water to guard against fire. A small quantity of water should be evaporated at the same time. A little alcohol or kerosene must be poured upon the sulphur, by means of which it may be ignited. Leave the room quickly, for the fumes are highly poisonous when breathed, and close the door tightly. Let the room remain closed twenty-four hours or more. Then air thoroughly for at least twenty hours.

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#### **(R. XII.)**

#### **Regulation for the Control and Management of Piggeries in the State of Pennsylvania.**

1. This Board declares the keeping of pigs an offensive industry.
2. Hog yards and piggeries will not be permitted within 200 feet of any natural stream or water-course, and the drainage of a piggery shall in no case be permitted to reach any natural stream until said drainage has been purified.
3. All pig pens shall be constructed with water-tight floors, either

of plank or cement, which must be elevated at least ten inches above the ground.

4. The feeding of animals dead from natural causes to pigs will not be allowed. Offal should not be fed to pigs for at least a month before they are killed. The animals to be killed should be removed from the pen where the offal is fed and should be fattened on grain. Offal from hogs should not be fed to hogs, as disease is liable to be communicated to sound animals in this way. Offal from hogs must be burned or buried.

5. All pig pens must be daily cleansed and thus kept free from all offensive odors.

6. Where offal from slaughter houses is fed to pigs, the yards should be cleaned at least twice each week, the refuse being buried or burned.

7. Where garbage or offal is fed to pigs, the troughs, basins or boxes should be cleansed and dried as often as is necessary to prevent unwholesome odors from arising.

8. No hog ranch or piggery for garbage or offal feeding, where more than fifty head of swine are kept, shall be established or maintained without a permit from a health authority.

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(R. XIII.)

**Regulation for Preventing the Pollution of Streams and Other Public Waters by the Refuse and Sewage from Tanneries.**

1. The throwing or otherwise depositing of hair, lime, fleshings, trimmings, spent tan bark and all other solid waste from tanneries in streams, ponds, lakes or other public waters, is absolutely prohibited as entirely unnecessary, and because under certain conditions it becomes injurious to the public health.

2. All sewage produced by washing hides in any and all processes, as well as all spent tan liquors, shall, before being run into streams or other water used as public water supplies, be filtered through beds of gravel. This can readily be accomplished by setting the works a short distance back from the water.

3. In cases where sulphuric acid, chromic acid or other acids or salts injurious to human health are employed in tanneries, they shall be recovered or neutralized before being thrown into any stream used as a public water supply.

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(R. XIV.)

**Regulation Forbidding the Dumping of Night Soil in Public Waters.**

The dumping of night soil in any river, stream, lake, pond or other public water in this Commonwealth constitutes a nuisance prejudicial to the public health and is hereby forbidden.

## APPENDIX L.

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### CIRCULARS AND FORMS.

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1. Circular No. 47. Precautions Against Whooping Cough.
2. Circular No. 48. Measles and Its Prevention.
3. Circular No. 49. Suggestions with Regard to Railroad Hygiene.
4. Circular No. 50. On the Teaching of Hygiene in the Public Schools.
5. Circular Letter to Accompany the act of Legislature on Bone Boiling.
6. Poster on Diphtheria.



## CIRCULAR NO. 47.

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### Precautions Against Whooping Cough.

Whooping cough (Pertussis, Keuchhusten) so-called from the peculiar sound made by the patient, is a contagious disease of childhood from which comparatively few children escape. This is owing to the fact that it is commonly looked upon as a mild disease, and, hence, one which need be but little dreaded. It is, however, not only often fatal, but is frequently followed by complications affecting the respiratory system, such as pneumonia, water on the chest, consumption, asthma and bronchitis; by bowel troubles and marasmus and by nervous affections, such as convulsions and water on the brain. Many cases of Pott's disease, or angular curvature of the spine, have been traced to it as a cause. In England, one-fortieth of all deaths have been recorded as of whooping cough. In the city of New York it causes one seventy-sixth of all deaths. In Ireland, one-fifth of all dying of epidemic diseases die of whooping cough, and the mortality has been known to rise as high as 10 per cent. of all attacked. In Philadelphia in 1894, there were 190 deaths from this disease. This would amount to about 1,000 deaths for the whole State. These statements show that the disease is not wholly of a mild and benign character.

### Who Are Subject to Whooping Cough.

Children, from the time of birth until they are ten years of age, are very susceptible to this disease. It is rare after ten years, although adults often contract it and suffer severely.

### How the Disease Is Spread.

Infection seems to be through the breath, and the discharges from nose and lungs. If children can avoid the breath of those afflicted with the disease they will rarely contract it. It does not appear to be carried in clothing or other articles. If a sick child is confined to a room alone the disease will probably not spread to the other children in the house.

### Who Should Avoid the Disease.

All children should be shielded from whooping cough, but especially infants and those who from any cause are weak or feeble. As the very young are most susceptible the greatest care should be taken to keep them away from infected persons. Observations recorded in

the city of Philadelphia for a period of ten years showed that ninety-six per cent. of the deaths from this disease were of children under five years of age.

There is always serious danger from complications in whooping cough, and it is safer to keep all children under ten years of age from the infection. It is more to be dreaded in winter than in summer.

#### Period of Contagiousness.

The disease appears in from seven to twenty-one days after exposure. The patient is capable of affecting others during the whole period of his illness.

#### Quarantine.

The question of the quarantine of whooping cough is practically a difficult one. Theoretically convalescents should be quarantined for a period of four weeks after recovery from the spasmodic stage; and those who have been exposed to the disease, for three weeks after the last exposure. But inasmuch as exercise in the open air and change of air are extremely beneficial to these little patients, we should not be justified in shutting them up in one room, or forbidding them from going out of the house. They should, however, be absolutely forbidden from going to schools of any kind, to church, or to any dwelling in which there are children who have not had the disease, and from traveling in public conveyances; and children who have not had the disease should on no account be allowed to enter a house in which the disease exists. It follows from this that such houses should be placarded.

#### General Precautions.

It has been conclusively established that vaccination will greatly ameliorate the severity and shorten the duration of the disease. The fact that a child has whooping cough therefore, so far from being a reason for postponing vaccination, is one of the best reasons for performing it without delay.

No child should be exposed to this infection until it has passed the tenth year, if it can be possibly avoided.

Where the disease becomes epidemic in a neighborhood it is well to keep your own children from school.

A case of whooping cough should always be under the care of a physician, and especially so if any of the complications above alluded to arise.

Clothe a child with whooping cough in flannel, and confine it to the house whenever the weather is cold, raw or damp. Keep it off cold, damp ground. It should wear overshoes and an overcoat if it goes out in cold weather, but if the weather is warm and clear chil-

dren with the disease are benefited by being in the open air. Children living in large cities, are greatly benefited by being sent to the country.

#### Disinfectants.

While it has never been demonstrated by the microscope that whooping cough is caused by a germ, what we know of other communicable diseases leads us to the inevitable conclusion that such is the case. It is therefore desirable that matters coughed up and vomited should, in the house, be received into a vessel containing a disinfectant solution, and, out of doors, covered with fresh earth.

Inasmuch as the vapor of Cresol has been found to diminish the violence and duration of the cough, this or some other phenol preparation such as carbolic acid (a pint to two and a half gallons of water) may be used for this purpose, and also be allowed to stand in the room.

GEORGE G. GROFF, M. D.,  
Chairman Committee on Preventable Diseases.

BENJAMIN LEE, M. D.,  
Secretary State Board of Health.

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#### CIRCULAR NO. 48.

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#### Measles and its Prevention.

Measles is an eruptive, communicable (contagious) disease most common in childhood. It is of such universal prevalence and the attacks are often so mild that it has come to be looked upon as a disease which is dangerous neither to life or health. This view is, however, entirely erroneous, death or permanent injuries of the body often resulting from the disease. More than 10,000 persons die annually of measles in Great Britain. In 1894, measles headed the death rate from contagious diseases in the city of London, there having been 3,923 deaths from this disease, as compared with 2,670 from diphtheria, and 2,097 from whooping cough. It killed, in other words, about twice as many persons as scarlet, typhoid, typhus and other fevers and small-pox, all put together. English sanitary authority from the nose, is very infectious, and the fine, bran-like scurf, which is shed in great quantities often by the skin, is full of the specific Great Britain."

In the city of Pittsburgh, for the twelve years preceding 1894, the average number of deaths was eighty-three. Allowing an average population of 200,000, this would give a mortality for the entire State of two thousand and seventy-five (2,075). In the year 1887 the number of deaths from this disease in the city just named was one hundred and eighty (180).

But it is not because of the deaths alone that measles is a dangerous disease. It often leaves the eyes, ears, bowels, respiratory passages and the lungs in a weakened and diseased condition. Pneumonia, bronchitis, croup and consumption far more frequently follows measles than is generally understood. Indeed, there is good reason for believing that measles may leave children predisposed to consumption of the lungs and bowels. Impaired eyes and ears often date from an attack of measles.

In view, then, of the mortality and disability with which this disease is justly chargeable, and of the fact that preventive measures have been so generally adopted in the case of these other diseases which do so much less harm, can we longer afford to regard with indifference this serious menace to the life and health of the rising generation? "Measles and its death toll" in this country, as abroad, may well be said to have become a question of national importance.

It is because of these facts that the State Board of Health of Pennsylvania has prepared and published this circular for general distribution, believing that many lives and much suffering may be saved by following its teachings.

#### Persons Liable to Measles.

Measles is most commonly seen in the young, although any person who has not had the disease is liable to contract it. Very few persons escape it until adult life. Second attacks have been quite frequently observed of late years, and it has even been known to occur a third time. It is very severe in adults, and has proved extremely fatal in military camps.

#### Periods of Incubation and Infectiousness.

The least period required to develop the disease after exposure is four days; the average period is nine or ten days; the greatest is fourteen days.

The infectious period is from the appearance of the earliest symptoms until convalescence is completely established. The catarrhal stage preceding the eruption, in which there is cough and running from the nose, is very infectious, and the fine, bran-like scurf, which is shed in great quantities often, by the skin, is full of the specific poison.

### How Measles Spreads.

The specific poison of measles seems to be in the skin and in the discharge from the mouth and nose. Exposure to the presence of the sick and convalescent or to infected bedding, clothes, carpets, curtains, books or toys is the means of spreading measles. A person visiting a case of measles may readily carry the germs in his clothing and convey the disease to others.

### General Precautions.

Measles may be avoided by sending children from home when an epidemic prevails, by keeping them from day and Sabbath schools, and by isolating the patients, thus preventing all communication with well children.

Quarantine should extend fifteen days from the last exposure to infection and until complete recovery. Nurses should be quarantined with their patients.

### Precautions in the Sick Room.

1. It is safest to place all cases of measles under the care of a physician.

2. No persons who have not had the disease should not be allowed to go into the room where persons are suffering from measles.

3. Persons who have come in contact with those suffering from measles should avoid attending public places of amusement or worship; they should not ride in cabs, omnibuses or railways until they have changed their clothes or had them disinfected by exposure to heat, or soaking in boiling water.

4. In all cases the sick child or person should be separated from the family, either by removing the person affected or removing the occupants from the sick person.

5. When the disease has broken out in a family on no account should the children be sent to school, until such a time as there shall be no danger of their conveying the infection of the disease, as testified by a competent physician.

6. In rooms where persons are lying ill with the disease the windows should occasionally be opened or kept constantly open, according to circumstances, so as to secure the escape of the poisoned air and the admission of fresh air from without. Fresh air itself is one of the most efficient remedies in the cure of all infectious diseases, and the destruction of disease germs. Avoid draughts and keep the patient well covered.

7. The sick room and everything about the sick person should be kept as clean as possible. All dirty linen should be immediately removed and put in cold water, and afterwards put into boiling water and well washed. Things that cannot be washed should, if possible,

be sent, wrapped in a sheet soaked with a disinfectant solution, to some disinfecting establishment or placed in a hot oven.

8. Vessels used in a sick room should be well washed, and rinsed out with some disinfectant, such as chloride of lime, carbolic acid or Condy's disinfecting fluid. Everything thrown into privies, water closets or drains should first be mixed with one or the other of these disinfectants.

9. Finally, we reiterate that no persons should be allowed in the sick room who have not had the disease; but if this is deemed imperative, they should place themselves on the side of the bed towards which the current of air comes, to avoid the possibility of the exhalations or breath of the sufferer entering their mouth and lungs.

Those sick with measles need little medication, unless complications arise, but great care and good nursing. It is important to call in a physician at the start, and to obtain from him the fullest directions for the management of the case, and to follow these implicitly.

#### Precautions During Convalescence.

Use every means to prevent taking cold, and until recovery is well established don't allow the patient to go upon damp ground without overshoes, or into the cold without being well wrapped up. For a violation of these precautions a life may be the penalty. If the eyes become sore and weak, as they often do during the attack, the room should be darkened and all use of the eyes forbidden for reading, sewing or similar purposes until convalescence is well established.

Should a cold, bronchitis or catarrh, sore eyes or discharges from the ears or deafness remain after an attack of measles, the child should be continued under a physician's care, and every effort made by means of proper food and clothing to speedily restore it to its normal health. A cold following measles should never be neglected.

Since the eyes are often inflamed and usually weakened by an attack of measles, children should not be hurried to school until the strength of vision is well re-established. They should not read or study so long as the effort causes smarting or redness or watering of the eyes, or headache.

Remember, measles is a dangerous disease and to be avoided if possible, children should never be purposely or needlessly exposed to it.

#### Precautions in Regard to Burial.

After death the body must be at once wrapped in a sheet saturated with a solution of corrosive sublimate (standard solution No. 2) and buried as soon as possible. The funerals must be private. Newspapers should, in notices of death, mention name of disease, so that people may voluntarily remain away. Undertakers should not fur-

nish chairs at funerals of those who have died from contagious diseases; and such articles as they regularly use in their business, if taken to such a house, should be washed with a solution of corrosive sublimate before being used elsewhere. The ice box should never be used in such cases.

#### Disinfection of Premises and Effects After Recovery or Death.

This work should be done thoroughly, and generally it will be best done by an intelligent person who has had experience in it.

Recent investigations by a committee of the American Public Health Association show that some substances on which much reliance has been placed, are of little value as disinfectants. Only those which the committee recommend are here mentioned.

Burn as many of the articles which have been about the sick as possible.

#### Standard Disinfecting Solutions Recommended by the State Board of Health.

1. Standard Solution No. 1.—Dissolve chloride of lime or bleaching powder of the best quality (containing at least twenty-five per cent. of available chlorine) in soft water in the proportion of four ounces to the gallon.

2. Standard Solution No. 2.—Dissolve corrosive sublimate and permanganate of potash in soft water in the proportion of two drachms of each salt to the gallon.

(Note.--This solution is highly poisonous. 2. It requires a contact of one hour to be efficient. 3. It destroys lead pipes. 4. It is without odor.)

3. Standard Solution No. 3.—To one part of hypochlorite of soda add five parts of soft water.

4. Standard Solution No. 4.—Dissolve corrosive sublimate in water in the proportion of four ounces to the gallon. One fluid ounce of this solution to the gallon of water is sufficiently strong. Articles should be left in it for two hours. One gallon of standard solution No. 1 may also be mixed with nine gallons of water and used in the same way. No article should be allowed to leave the infected room until it has been either disinfected or boiled.

(Note.—Corrosive sublimate solution should be kept in wooden or crockery vessels.)

#### To disinfect Discharges from the Patient.

Use standard solutions Nos. 1, 2 or 3, keeping a pint of the solution used constantly in the vessel ready for any emergency. Let the discharge be passed directly into the solution, then let a pint more of it be added, and let the whole stand some time to be thoroughly acted upon before being thrown into the sewer or being buried. Ordinary whitewash, freshly made or preserved by pouring a thin film of coal



oil on its surface, is also very useful for this purpose. These discharges should never be thrown into a privy or cesspool, nor into a running stream nor on the surface of the ground. Pocket handkerchiefs should not be used, but small pieces of rag employed instead, for wiping the nose and mouth. Each piece, after being once used, should be immediately burned. The playthings used in the sickness should also be burned. A vessel, containing a disinfectant solution, should always be on the bed for the patient to spit into.

**To Disinfect Clothing, Towels, Napkins, Bedding and Such Textile Fabrics as Can be Washed.**

Burn as much as possible. Use standard solution No. 4, one ounce to the gallon of water, or use one gallon of solution No. 1, in nine gallons of water. Let the goods soak in the solution for at least three hours before they leave the room. Stir them up so that the solution gets all through the goods. After disinfection boil the goods thoroughly.

**For the Disinfection of Water Closets, Urinals, Sinks and Cesspools.**

5. Carbolic Acid Solution.—Mix one pint of carbolic acid with two and a half gallons of water.

Standard Solution No. 4, diluted with three parts of water, may also be used in the proportion of one gallon of the solution to every four (estimated) of the contents of the vault. Standard solution No. 1, would require to be used gallon for gallon of the material disinfected. Dry chloride of lime may be sprinkled over the contents of a privy, or standard solution No. 2, may be made up by the barrel, and four or five gallons be applied dally during an epidemic.

**To Disinfect the Sick Chamber.**

The room must be vacated. The paper should be carefully scraped from the walls. Thorough ventilation for several days, and thorough washing of all surfaces with one of the disinfecting solutions, say, one pint of standard solution No. 4, to four gallons of water, or a quarter of a pint of solution of hypochlorite of soda to a gallon of water. The walls and ceiling, if plastered, should be washed with this and then whitewashed. All dust must be carefully washed (not brushed or swept) away from ledges, cracks, corners and crevices.

**Sulphur Fumigation.**

To use this effectively, two pounds of sulphur should be burned in a room ten feet square. Every opening in the room—flues, doors, windows, cracks and crevices—must be closed, except the door by which the disinfector is to escape; closet doors and bureau drawers should be opened wide, and all woolen articles which have been in the room during the sickness, hung on lines, being spread out and opened



up as much as possible. The sulphur is to be burned in an iron kettle or other vessel set in a tub containing a little water, to guard against fire. A small quantity of water should be evaporated at the same time. A little alcohol or kerosene must be poured upon the sulphur, by means of which it may be ignited. Leave the room quickly, for the fumes are highly poisonous when breathed, and close the door tightly. Let the room remain closed twenty-four hours or more. Then air thoroughly for several days.

#### Formic Aldehyde.

Is a new and efficient disinfectant, but should only be used by an experienced health officer or a physician.

GEORGE G. GROFF,  
Chairman Committee on Preventable Diseases.

BENJAMIN LEE,  
Secretary State Board of Health.

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### CIRCULAR NO. 49.

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#### Suggestions With Regard to Railroad Hygiene.

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##### General Suggestions.

The number of persons who constantly use the railroads of this State is now so large that every possible precaution should be taken to prevent the risk of accidents and exposure to communicable diseases.

It is now demanded that all employes in offices and in the passenger service be intelligent and carefully trained men. They should be strong and well physically, with the senses of hearing and sight acute. Their hours of work should not be so long as to in any degree impair their efficiency.

##### Sanitation Should Be Under a Trained Officer.

It is suggested that all matters of sanitation connected with railroads, such as care of buildings, heating, lighting, cleansing, disinfecting and ventilating cars and selection of water supplies, should be under the charge of a medical officer trained in chemistry, bacteriology and general sanitation and hygiene. It is believed the employment of such experts would greatly add to the efficiency of railway systems.

### Construction of Passenger Cars.

Passenger cars should be strongly constructed and braced so as to obviate as far as possible all damage from "telescoping" of cars in collisions. The floors should be of hard wood and polished and with tight joints to prevent retention of dust. Seats should be easily removable for purpose of cleaning.

The floors in the closets should be of asphalt or of copper, in order that nothing offensive may be absorbed by them.

### Furnishing of Cars.

Rattan seats or seats of polished wooden slats would be preferable to the plush cushions now in use. Seats and all the decorative materials in the cars should be so constructed as to be readily cleansed. Rugs which can be readily removed and cleansed are preferable to carpets.

### Lighting.

Passenger cars should be well lighted and since the electric light gives off no heat or deleterious gases, and moreover gives rise to no danger from fires in cases of accident, this source of light is recommended as preferable to gas or oil.

### Heating.

Every passenger car should contain a reliable thermometer and trainmen should be required to keep the temperature as near 70 degrees Fahrenheit as is possible. Steam heat from the engine, as less liable to cause trouble in case of accident, is strongly recommended. The number of terrible accidents from fire should warn all railway companies of the extreme danger of heating by means of stoves.

### Ventilation.

Numerous analyses have been made of the air in crowded day coaches and in sleepers, with the result that such air is shown to be very impure, some reports showing that the impurities are from four to six times as abundant as allowed by the highest permissible limit.

Inventors now claim that several systems have been so far perfected that cars can be thoroughly ventilated while running. Coaches should have the doors and windows thrown open for as long a time as possible between trips in order that the foul air may be completely exchanged for fresh air. Trainmen should be required to observe that open ventilators and open windows are not producing draughts of cold air to the injury of any passenger. No passenger should be permitted to have a window open during the time the train is running, except in warm weather. Provision should always be made for thorough ventilation of the closets.

The following hints on ventilation have been formulated by the Committee on Car Sanitation of the American Public Health Association.

1. "The admission of thirty cubic feet per minute per passenger, of fresh air, and the carrying off of an equal amount of foul air, summer or winter, should be assured.

2. "The fresh air so admitted must not be moving at a speed of more than three or four miles per hour in winter time.

3. "Fresh air admitted must be of temperature in winter time of about seventy degrees Fahrenheit.

4. "Fresh air so admitted in winter time must have added to it a proper degree of moisture for the temperature at which it is admitted, according to the average humidity of the atmosphere when at seventy degrees in the climate in which the cars are running.

5. "No system of winter ventilation can be successful unless means for the fresh air supply are provided independently of and separately from the windows and doors, as well the ventilators for carrying off the foul air.

6. "The fresh warm air should be distributed through as many openings and as low down as can be conveniently arranged for, and the foul air should be carried off through as many small openings in the roof of the car as can be conveniently arranged for in winter.

7. "The ventilation should be entirely independent of the speed of the train, and act equally as well whether the car is standing or running.

8. "The ventilation should be so arranged that there will be a plenum or slight excess of pressure inside the car, so that all drafts will be outward instead of inward, and smoke and dust thus excluded.

9. "It is desirable that double windows should be used and so arranged that they can be locked fast in winter time, but readily opened in summer time.

10. "It is desirable that an inside swinging door be used, so as to form an air-lock or inside vestibule, to prevent the admission of cold air and dust every time the doors of the platform are open."

#### The Closets.

The coach closets should be under the care of the conductor, who should be held responsible for their condition. They should be cleaned at the end of each run. The seat and urinal should be scrubbed at frequent intervals. In warm weather, the urinal should always contain ice or a disinfectant. If there is no other provision for the ventilation, a window should be fastened partially open.

It is suggested that the time has come for a change in the construction of a coach closet. There should be a closed hopper under the seat, to catch all the excreta, both solid and liquid. This material

dropped along the tracks might readily be a means of spreading such diseases as typhoid fever and cholera.

Paper or thin wood covers for the seats should be on all trains for sale by the porters or newsboys.

Closets at stations should receive the same care as those on cars.

#### The Water Supply.

The water supplied to cars and stations should always be from sources of known purity. The ice supplies should also be known to be pure. It should be thoroughly washed and then placed in the tanks or coolers by means of tongs, not with the dirty hands of the men. The tanks and covers should be carefully cleansed at frequent intervals.

The glass furnished the passengers for a drinking vessel should be cleansed at the end of each run. It would be a better plan to let each passenger furnish his own drinking vessel.

#### Cleaning of Coaches.

Every passenger car should be thoroughly cleaned and ventilated at the end of every twenty-four hours, or at the end of every run. Cushions, carpets, rugs, curtains, blankets, etc., should be removed from the cars and beaten until free from dust. The windows should be cleansed of all dust.

The floors should be thoroughly swept and at frequent intervals scrubbed.

Inventors claim that cars may be best swept by means of compressed air. The closets should be cleaned every day, the urine and hopper being scrubbed with a disinfectant solution.

#### Disinfection of Coaches.

Coaches should be disinfected at frequent intervals and always after exposure to a contagious disease. This may be done by steam under pressure, or by Formic aldehyde (made by burning wood spirit in a suitable generator). Pullman cars should be disinfected at the end of every run. In order to disinfect the woodwork of a car it should be carefully wiped with a cloth wet in a solution of mercuric bichloride 1 to 2,000. Towels and sheets should be boiled in water for a half hour.

Whenever a patient suffering from any contagious disease uses a Pullman berth, the cushions, mattress, blankets, curtains, etc., should all be removed and be subjected to thorough disinfection. This should apply to tuberculosis (consumption) as well as to the contagious diseases of childhood, small-pox and other infections. Disinfectants should be used in the closet every day.

### Disinfectants Recommended by the State Board of Health of Pennsylvania.

1. Fire for all rubbish and organic matter which can be burned.
2. Boiling water for all articles which can be boiled, as towels, blankets, etc. The operation should be continued for at least half an hour.
3. Chloride of lime for matter which cannot be burned, such as heaps of rubbish and filth-sodden earth. The earth should be liberally covered with the lime.
4. For closets and drains sulphate of iron, two pounds to the gallon of hot water.
5. For floors and walls, a solution of mercuric chloride, four ounces to the gallon of water.
6. For fumigation, steam under pressure; burning sulphur; at least three pounds burned for every 1,000 cubic feet. Steam should also be liberated at the same time, as the sulphur fumes are comparatively inactive when dry.

Fumes of Formic aldehyde is also recommended.

### Transportation of the Sick.

Persons known to have been suffering from any contagious disease, such as small-pox, cholera, diphtheria, scarlet fever, whooping cough, measles, should not be permitted to enter a passenger coach until they secure from a physician a certificate of freedom from contagion. When contagious diseases are prevailing in epidemic form, children should not travel in the cars.

Tuberculous patients should never be permitted to spit upon the floors. In fact no passenger or employe should ever be permitted to spit upon the floor. Paper cuspidors should be kept for sale by porters and newsboys and passengers should be required to use them.

### Transportation of the Dead.

The following are the rules of this Board with regard to the transportation of bodies:

Rule 1. The transportation of bodies of persons dead of small-pox, varioloid, Asiatic cholera, leprosy, typhus fever, diphtheria (membranous croup) or yellow fever is strictly forbidden.

Rule 2. The bodies of persons dead of anthrax, scarlet fever, puerperal fever, typhoid fever, erysipelas, measles, whooping cough or dysentery must be wrapped in a sheet thoroughly saturated with a strong solution of bi-chloride of mercury, in the proportion of one ounce of bi-chloride of mercury to a gallon of water or in an antiseptic cotton-wool blanket, and encased in an air-tight zinc, tin, copper or lead coffin; or in an air-tight casket, hermetically sealed, and all enclosed in a strong, tight, wooden box; or the body must be

prepared for shipment by being wrapped in a sheet disinfected by a solution of bi-chloride of mercury or anti-septic blanket as above, and placed in a strong coffin or casket, and said coffin or casket encased in a hermetically sealed (soldered) zinc, copper or tin case, and all enclosed in a strong, outside, wooden box of material not less than one inch thick.

**Rule 3.** In the case of contagious, infectious or communicable diseases the body must not be accompanied by persons who, or articles which, have been exposed to the infection of the disease. And, in addition to the permit from the board of health or proper health authority, agents must require an affidavit from the shipping undertaker, stating how the body has been prepared and the kind of coffin or casket used, which must be in conformity with Rule 2.

**Rule 4.** The bodies of persons dead of diseases that are not contagious, infectious or communicable, may be received for transportation to local points in this State when encased in a sound coffin, or metallic case, and enclosed in a strong wooden box, securely fastened so that it may be safely handled. But when it is proposed to transport them out of the State (unless the time required for transportation from the initial point to destination does not exceed eighteen hours) they must be cased in an air-tight, zinc, tin or copper, or lead lined coffin, or a strong coffin or casket encased in a hermetically sealed (soldered) zinc, copper or tin case, and all enclosed in a strong outside wooden box of material not less than one inch thick.

**Rule 5.** Every dead body must be accompanied by a person in charge, who must be provided with a transit permit from the board of health, or proper health authority, giving permission for the removal, and showing name of deceased, age, place of death, cause of death (and if of a contagious or infectious nature), the point to which it is to be shipped, and the names of medical attendant and undertaker.

**Rule 6.** The transit permits must be made with a stub and two coupons; the stub to be retained by the person issuing it; the first coupon to be detached by agent at initial point, and sent to the general baggage agents, and the second coupon by the last train baggageman, while the permit itself must accompany the body to its place of destination. The stub, permit and coupons must be numbered, so that one will refer to the other, and on the back of the permit there must be a space for the undertaker's affidavit to be used in contagious or infectious diseases, as required by Rules two and three.

**Rule 7.** The box containing corpse must be plainly marked with a paster, showing name of deceased, place of death, cause of death, point to which it is to be shipped, number of transit permit issued in connection, and name of person in charge of the remains. There must also be blank spaces at the bottom of the paster for the station

agents at the initial point, to fill in the form and number of the passage ticket, where from, where to, and route to destination of such ticket.

Rule 8. It is intended that no dead body shall be moved which may be the means of spreading disease; therefore, all disinterred bodies, dead from any disease or cause, will be treated as infectious and dangerous to the public health, and must not be accepted for transportation, unless said removal has been approved by the State or local board of health, and the consent of the health authority of the locality to which the corpse is consigned, has first been obtained, and the disinterred remains have been enclosed in a hermetically sealed (soldered) zinc, tin, or copper lined coffin or box, or a box encased in a hermetically sealed (soldered) zinc, tin or copper case.

#### Some General Sanitary Rules.

1. Spitting upon the floors of coaches and waiting rooms should be absolutely prohibited.

2. Cuspidors should be in every car for those who need them, and they should always contain a solution of mercuric chloride, 1 to 2,000.

3. Combs, brushes, soap and towels in common should not be furnished for general use.

4. Opening of windows by passengers when trains are running should not be tolerated.

5. Trainmen should never permit cold draughts of air to trouble passengers.

6. The proper temperature for a passenger coach is seventy degrees Fahrenheit.

7. The wash bowl should never be used until after it has been thoroughly cleansed with a disinfectant solution.

8. All shops, stations and adjacent grounds, as well as the tracks between the stations should be kept scrupulously clean.

9. The floors and seats of station water closets should be scrubbed with soap and hot water at least once a week. The vaults should be disinfected with iron sulphate as often as they become offensive. Paper covers for the seats should be for sale at all stations.

10. Drains and sewers should be flushed with clean water at least once a week and in warm weather with a solution of green vitriol; also once a week all drain pipes should be carefully trapped.

11. Privy vaults should be displaced by earth, or dry closets as rapidly as possible.

#### Infectious Diseases Among Employes and Their Families.

1. Whenever an employé is attacked with a communicable disease, he must remain at his home or at a hospital until recovery is completely established, and must not return to his work until he has received a medical certificate that he is free from contagion.



2. Whenever communicable diseases appear in the family of an employé, he must go to a boarding house, hotel or other house and must not return to his own home before recovery or death of the patient and disinfection of the house. If he continues in his home, he must be quarantined as though he had contracted the disease himself.

3. In case an infectious disease is found at a station, in a passenger car, a physician must be summoned at once and the sick person removed under careful precautions. Disinfection must be performed as already prescribed.

**Respectfully Suggested to Railroad Companies.**

1. That towers should be so constructed that efficient ventilation be secured. The employé in a tower cannot have a clear mind in a poisoned atmosphere, and with his blood charged with carbonic acid.

2. That towermen at important crossings should not be employed more than eight hours in the twenty-four.

3. That all grade crossings in populous centers should be as rapidly as possible abolished. Where this cannot be done they should be provided with guards.

4. That all trains should come to a full stop before crossing another railroad on grade.

5. That overhead warnings should be provided at all overhead bridges for the protection of brakemen on cars.

6. That iron railings should be placed about all brakes for the protection of employés.

7. That automatic coupling appliances and air brakes should be used wherever practicable.

8. That an imperative rule should require all tenders running backwards to be provided with a headlight.

9. That employés should never be permitted to continue work until so exhausted that they are unable to think clearly.

10. That it is not safe for railroads to employ any persons about trains or stations who are addicted to the use of alcoholic beverages.

**GEORGE G. GROFF,**

Chairman Committee on the Sanitary Supervision of Travel and Traffic.

**BENJAMIN LEE,**  
Secretary State Board of Health.



## CIRCULAR NO. 50.

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On the Teaching of Hygiene in the Public Schools.

To Superintendents and Principals of Public Schools of Pennsylvania:

Gentlemen: Nearly 20,000 people died in Pennsylvania last year of preventable diseases. Nearly 6,000 of these were children who died of diphtheria, scarlet fever and measles. *In addition to this more than one-third of the children born in this State die under five years of age.* In too many cases these deaths are justly attributable to contagions brought from school by their brothers and sisters. In support of this statement it may be mentioned that the city of New York has recently begun the systematic examination of pupils in the public schools by one hundred and fifty special school doctors, who have visited the primary departments. In these departments alone, one hundred and forty children were found with cases of actual contagious disease sufficient to require their exclusion from the schools. Contagious diseases are reported in this State with much less care than in New York, and the number of cases which would be found in a like inspection here would probably bring to light a still larger number. There are probably all the time hundreds of children in the public schools of Pennsylvania ill with or barely recovered from contagious disease, who would be discovered by a systematic and constant medical inspection.

The State Board of Health desires, if possible, to stop this slaughter of the innocents. Can it count upon the aid of the school authorities?

"Prevention is better than cure" and far cheaper. But prevention cannot be practiced where the people are not informed. Is it not time to give positive instruction in the schools upon matters in reference to which the whole scientific world is agreed?

The diseases of childhood are communicable. *They are preventable.* They are accompanied by a large mortality. *When not fatal, they often leave those attacked greatly weakened, and with permanent impairment of ears, eyes or other organs.* Diseases of the respiratory organs, as pneumonia and tuberculosis (consumption), often naturally follow diphtheria, croup, scarlet fever, measles and whooping cough. After the age of fourteen, children are not so susceptible to these diseases though they may still be contracted by direct communication with the sick, or through infected articles such as clothing and books.

If these things are true, ought they not be taught the children? Is not a proper place for this instruction the school room?

Then again, the subjects of the disposal of household waste, of disinfection, of disease germs and germicides, of proper environments for human beings are not clearly taught in the books now in our schools. To illustrate: *The waste from any animal's own body* is the poison which it should most dread. The more closely human beings live together the more rapidly they die. Their own filth kills them. Children are taught that the pig pen and the cow stable are harmful to health. They are not taught that the most deadly thing about their homes is the closet in which their own excreta are deposited. They are not taught that by cleanliness is meant freedom from our own waste products, i. e., from lungs, skin, bowels and kidneys. Omitting infant mortality, and including among preventable diseases whooping cough, pneumonia and cases of consumption not recognized, we have at least 20,000 dying annually in our own State of preventable diseases, or in the nation about 240,000 persons dying, and ten times as many sick, from diseases positively preventable! We are told that about 70,000 persons die from the abuse of alcoholic drinks yearly. But we now find three and one-half times as great mortality from causes just as preventable. Look at the enormous number of deaths from consumption, 8,530 in one year in our own State, or 100,000 in the nation. Yet this disease may be prevented!

A report on this subject made to The Associated Health Authorities of Pennsylvania is appended. Also, the figures taken from reports of ten cities upon which the statements made in this circular are based. Your advice and co-operation in this matter are solicited.

Respectfully,

G. G. GROFF,

Chairman, Committee on Preventable Diseases of State Board of Health.

Lewisburg, Pa., March 3, 1897.

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Mr. President and Members of the Associated Health Authorities of Pennsylvania.

Gentlemen:—Your special committee on the teaching of hygiene in the public schools desires to report some evidences of progress. The laws passed by the last Legislature are proving of value in educating teachers and patrons. The people as a rule are coming to have a greater appreciation of the value of public and private hygiene.

It cannot however be said that there is any marked or visible improvement in the instruction in hygiene given in our schools. The

books still in use are in the main part elementary compends of anatomy and physiology, with little space devoted to hygiene and sanitary science.

It is true that some space is given to personal hygiene, and many books contain an appendix on common accidents and emergencies. There is not, however, a single book in use in the schools of Pennsylvania known to your committee which gives any instruction on the prevention and restriction of communicable diseases, on personal precautions against contagion, on disinfection and the use of germicides. In not a single book is it at all made clear what filth is, nor what constitutes impure water, impure food, and wholesome environments. In a word, the conditions which need be for good health, in pure food, pure water and healthful conditions are not explained in the school books in the hands of the children in this State, and your committee does not believe that the average teacher is prepared to give the instruction without the book in hand. That instruction such as is here outlined should be given, is proven by the mortality prevailing from preventable diseases.

The Secretary of the State Board of Health furnishes your committee with the figures of mortality in ten of the principal cities of the Commonwealth, from which the total mortality of the State from the following diseases is calculated:

Diphtheria and croup, .....	4,223
Scarlet fever, .....	910
Typhoid fever, .....	3,000
Consumption, .....	8,530
Measles, .....	616
<hr/>	
Total, .....	17,279

In view of these statistics your committee respectfully presents the following resolutions as a portion of its report:

1. Resolved, That it is the belief of the Associated Health Authorities of Pennsylvania that it is possible to teach practical hygiene and sanitation in the public schools of Pennsylvania, especially in reference to communicable diseases, disinfection, pure foods and pure water supplies.

2. Resolved, That this body urges upon all Normal Schools, Academies, Seminaries and Colleges, the importance of teaching these subjects to their pupils.

3. Resolved, That the Secretary be requested to communicate these resolutions to the Hon. Superintendent of Public Instruction, to the Principals of the State Normal Schools, and, for publication, to the Pennsylvania School Journal and Public Health.

G. G. GROFF.

Chairman, Committee on Hygiene in Schools.

## LIST OF COMMUNICABLE CONTAGIOUS AND INFECTIOUS DISEASES.

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1. *Diseases communicated by actual contact with the sick, or through infected articles, as food, drink, clothing, books, and domestic animals.*

Small Pox—infectious matter in skin and discharges from mucous membranes.

Varioloid—as in Small-pox.

Scarlet Fever—as in Small-pox.

Measles—as in Small-pox.

German Measles—as in Small-pox.

Chicken Pox—as in Small-pox.

Diphtheria—by discharges from throat and nose.

True or Membranous Croup—by discharges from throat and nose.

Itch—by actual contact.

Ringworm—by actual contact.

Erysipelas—by actual contact or by clothing.

Ophthalmia—(Sore eyes with discharge) by contact, and use of same basin and towels.

Tuberculosis—(Consumption) by the discharges from the lungs, (expectoration) especially after drying.

Leprosy—by actual contact with diseased surfaces.

Typhus Fever—by actual contact, or infected clothing.

Spotted Fever—(Epidemic Cerebro-Spinal Meningitis) as in Typhus.

Relapsing Fever—as in Typhus.

The Plague—by infected places, persons, articles or food and drink.

Yellow Fever—as in plague.

2. *Disease commonly communicated through drinking water and milk, sometimes through infected food, and as a result of filthy habits.*

Typhoid Fever—through drinking water, milk, and infected food.

Cholera—as in Typhoid Fever.

Dysentery—as in Typhoid Fever.

Malaria—through infected air or water.

3. *Diseases communicated through the air, or by means unknown.*

Influenza—apparently through the air.

Pneumonia—apparently through the air.

Whooping Cough—apparently through breath of sick.

Mumps—by direct contract or through the air.

## Circular Leter Addressed to Boards of Health.

Philadelphia, September 25, 1897.

Dear Sir: I enclose for your information a copy of the act passed by the last Legislature which places "bone boiling establishments and depositories of dead animals" in the Commonwealth of Pennsylvania under the supervision of the State and local Boards of Health. The State Board of Health urges that all establishments of this kind be at the earliest possible moment subjected to a rigid inspection, that licenses be refused to all such as are not equipped and maintained in accordance with the regulations prescribed by this Board, copies of which are herewith enclosed, and that suit be entered both for violation of this law and for creating and maintaining a nuisance against all proprietors of such establishments who, after a reasonable time, fail to comply with the regulations either of the State or of local Boards.

The State Board of Health desires an early report as to the number and condition of such establishments within the limits of your jurisdiction, and hereafter, a similar report annually.

I have the honor to be,

Yours respectfully,

BENJAMIN LEE,  
Secretary.

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DIPHTHERIA.

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Stop! Look! Read Carefully.

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Diphtheria is now the most dreaded disease of childhood. It is exceedingly contagious.

The mildest cases may give rise to the most malignant form of the disease.

All children are liable to it. No child should be permitted to attend any public school, Sabbath school, church or other public assemblage, from any house where diphtheria exists, until permission is given by the health officer.

No child is well of this disease so long as there are discharges from the nose, ears or mouth, and so long as these continue it should not go to school or mingle with other children.

No child suffering with a cold, sore throat, or cough should ever be neglected. Sore throats are often mild forms of diphtheria.

The spread of this disease can be prevented in families, schools, and communities by prompt action. Complete separation of the sick from the well should be insisted upon at once. When the disease becomes widespread, it is best to close the schools, but this will not become necessary if prompt and efficient measures are taken with the first case.

Every case of suspected diphtheria should be at once reported to the Health Officer.

\* No cup, knife or fork used by a child sick of Diphtheria should be used by any other person until it has been placed in scalding water.

Persons inserting notices of deaths resulting from this disease in newspapers should announce "of Diphtheria" in order that all who have children may be warned to remain away from the house.

No public funeral should ever be held in a case of death from diphtheria.

The sick room and its contents should be thoroughly disinfected after death or recovery, and such articles as cannot be disinfected should be burned.

BENJAMIN LEE, M. D.,  
Secretary.

GEORGE G. GROFF, M. D.,  
President.

By order of the State Board of Health.

## APPENDIX M.

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Laws of the Commonwealth of Pennsylvania, for the better protection of life and health, passed by the General Assembly in the year one thousand eight hundred and ninety-seven.

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1. No. 26. To regulate the employment and provide for the health and safety of men, women and children in manufacturing establishments, mercantile industries, laundries, renovating works or printing offices, and to provide for the appointment of inspectors, office clerks, and others to enforce the same.

2. No. 30. To amend the third section of an act, entitled "An act for the promotion of medical science by the distribution and use of unclaimed human bodies for scientific purposes through a board created for that purpose, and to prevent unauthorized uses and traffic in human bodies," approved the thirteenth day of June, one thousand eight hundred and eighty-three, to provide that incorporated anatomical societies of the county where the death of the person or such person described takes place shall be preferred to all others.

3. No. 37. To regulate the employment and provide for the health and safety of persons employed where clothing, cigarettes, cigars and certain other articles are made or partially made, and that said articles be made under clean and healthful conditions.

4. No. 51. To prevent and punish the loan, gift, sale or distribution of indecent and immoral writings, printings, pictures, photographs, or representations of all matters of an indecent or immoral character, and of all articles, drugs, recipes, et cetera, to prevent conception, or to produce unlawful abortion, or intended or purporting to be used for such purposes, or either of them, and also to prevent the advertisement, exhibition or publication of the same, and to authorize the seizure and destruction of all such matter.

5. No. 56. Granting the permission and regulating the establishment and operation of bone boiling establishments and depositories of dead animals in the Commonwealth of Pennsylvania, and providing for violations of the provisions of this act.

6. No. 68. To prevent the adulteration, alteration, and substitution of drugs and medicinal preparations, and providing penalties for violation thereof.

7. No. 82. To protect the health of the domestic animals of the Commonwealth of Pennsylvania.

8. No. 95. To regulate the manufacture of flour and meal food products.

9. No. 113. Regulating the location of cemeteries, hospitals and pest houses in cities of the second class of this Commonwealth.

10. No. 118. To prohibit the adulteration or coloring of milk or cream by the addition of so called preservatives or coloring matter, and to provide for the enforcement of the same.

11. No. 123. Amending second section of "An act to regulate the employment and provide for the health and safety of men, women and children in manufacturing establishments, mercantile industries, laundries, renovating works or printing offices, and to provide for the appointment of inspectors, office



clerks and others to enforce the same," approved the twenty-ninth day of April, Anno Domini one thousand eight hundred and ninety-seven.

12. No. 140. Providing for the regulation of the manufacture and sale of distilled and fermented vinegars, prescribing their standard, to prevent the adulteration of the same, providing for the enforcement thereof, and punishment for the violation of the same.

13. No. 164. To prevent fraud and conception in the manufacture and sale of cheese, and defining what shall constitute the various grades of cheese, providing rules and regulations for marking and branding the same, providing for the enforcement of this act, prescribing penalties for its violation.

14. No. 170. To establish a Dental Council and a State Board of Dental Examiners, to define the power and duties of said Dental Council and State Board of Dental Examiners, to provide for the examination and licensing of practitioners of dentistry, and to further regulate the practice of dentistry.

15. No. 175. To provide that one burial permit shall be sufficient for interment in any cemetery located within the county in which said burial permit is issued.

16. No. 176. Making valid the diplomas of physicians, issued by any reputable college or university in another state or foreign country, which have been improperly registered under the act of Assembly approved June eighth, Anno Domini one thousand eight hundred and eighty-one, and with the same effect as if said diploma had been legally registered under the provisions of said act.

17. No. 203. To amend the fourth section of an act entitled "An act to protect the people of the Commonwealth against incompetent practitioners of medicine, surgery and obstetrics," approved the twenty-fourth day of March, one thousand eight hundred and seventy-seven, so as to require a license to be taken out by transient practitioners who practice medicine gratuitously or so advertise, as well as those who practice for a valuable consideration.

18. No. 204. To amend section one of an act approved the third day of June, Anno Domini one thousand eight hundred and eighty-five, entitled "An act to amend an act, entitled 'An act to provide for the better security of life and limb in cases of fire in hotels and other buildings,'" approved the eleventh day of June, Anno Domini one thousand eight hundred and seventy-nine, extending the provisions thereof to buildings used in whole or in part for offices, not of fire-proof construction.

19. No. 245. To provide for the investigation of the diseases of domestic animals, and making an appropriation therefor.

20. No. 249. To establish an emergency fund to be used, as occasion may require, in the suppression of epidemics, prevention of disease, and protection of human life in times of disease and disasters, and making an appropriation therefor; and directing that the unexpended balance of the sum appropriated by the act approved the third day of July, one thousand eight hundred and ninety-five, shall revert to the State Treasury, and become part of the general fund at the close of the fiscal year ending May thirty-first, one thousand, eight hundred and ninety-seven.

21. No. 250. To provide for the current expenses of the State Board of Health and Vital Statistics for the two fiscal years commencing the first day of June, one thousand eight hundred and ninety-seven.



## AN ACT

To regulate the employment and provide for the health and safety of men, women and children in manufacturing establishments, mercantile industries, laundries, renovating works or printing offices, and to provide for the appointment of inspectors, office clerks, and others to enforce the same.

Minors and women shall not be employed more than 12 hours in any day.

Section 1. Be it enacted, &c., That no minor, male or female, or adult woman shall be employed at labor or detained in any manufacturing establishment, mercantile industry, laundry, workshop, renovating works or printing office for a longer period than twelve hours in any day, nor for a longer period than sixty hours in any week.

Nor more than 60 hours in any week.

Children under 13 years of age shall not be employed.

Section 2. No child under thirteen years of age shall be employed in any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office within this State. It shall be the duty of every person so employing children to keep a register in which shall be recorded the name, birthplace, age and place of residence, name of parent or guardian, and date when employment ceases, of every person so employed by him under the age of sixteen years. And it shall be unlawful for any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office, to hire or employ any child under the age of sixteen years, without there is first provided and placed on file an affidavit made by the parent or guardian, stating the age, date and place of birth of said child. If said child have no parent or guardian, then such affidavit shall be made by the child, which affidavit shall be kept on file by the employer and shall be returned to the child when employment ceases, and in no case shall there be a charge to exceed twenty-five cents for administering the oath for the issuing of the above certificates. And after the first day of January, one thousand eight hundred and ninety-eight, it shall be unlawful for any manufacturing establishment, mercantile industry, laundry, renovating works, printing office, mechanical or other industrial establishment to employ any minor who cannot read and write in the English language, unless he presents a certificate of having attended during the preceding year, an evening or day school for a period of sixteen weeks. Said certificate shall be signed by the teacher or teachers of the school or schools which said minor attended,

Employers shall keep a register.

Contents of register.

Children under 16 shall not be employed unless affidavit is filed.

Cost of affidavit.

Minors who can not read and write shall not be employed.

Exceptions.

Certificates to be signed by teachers.

and said register, affidavit and certificate shall be produced for inspection on demand by the inspector or any of the deputies appointed under this act.

Section 3. Every person, firm or corporation employing men, women or children, or either, in any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office shall post and keep posted in a conspicuous place in every room where such help is employed, a printed notice, stating the number of hours per day for each day of the week required of such persons; and in every room where children under sixteen years of age are employed a list of their names with their age.

Employers must post printed notice of number of hours work per day required.

Also names and ages of children employed under 16 years of age.

Section 4. Every person, firm, association, individual, partnership or corporation employing girls or adult women in any manufacturing, mechanical or mercantile industry, laundry, workshop, renovating works or printing office in this State, shall provide suitable seats for the use of the girls and women so employed, and shall permit the use of such by them when they are not necessarily engaged in the active duties for which they are employed.

Employers shall provide suitable seats for use of girls and women.

Section 5. It shall be the duty of the owner, agent or lessee of any such factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office where hoisting shafts or well holes are used, to cause the same to be properly and substantially enclosed or secured, if in the opinion of the inspector it is necessary to protect the life or limbs of those employed in such establishments. It shall be the duty of the owner, agent or lessee to provide, or cause to be provided, such proper trap or automatic doors, so fastened in, or at all elevator ways, as to form a substantial surface when closed, and so constructed as to open and close by action of the elevator in its passage, either ascending or descending.

Shall enclose hoisting shafts and well holes if inspector directs.

Elevator ways to have proper traps or doors.

To open and close automatically.

Section 6. It shall also be the duty of the owner of such factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office, or his agent, superintendent or other person in charge of the same, to furnish and supply, or cause to be furnished or supplied, in the discretion of the inspector where dangerous machinery is in use, automatic shifters or other mechanical contrivances

Dangerous machinery to be properly guarded.

Age of persons employed, etc.

for the purpose of throwing on or off belts or pulleys. And no minor under sixteen years of age shall be allowed to clean machinery while in motion. All gearing and belting shall be provided with proper safeguards.

Accidents to be reported within 24 hours.

Section 7. It shall be the duty of the owner or superintendent to report in writing to the factory inspector, all accidents or serious injury done to any person employed in such factory, within twenty-four hours after the accident occurs, stating as fully as possible the cause of such injury.

Wash and dressing rooms shall be prepared.

Section 8. A suitable and proper wash and dressing room and water closet shall be provided for males and females where employed, and the water closets, wash and dressing rooms used by females shall not adjoin those used by males, but shall be built entirely away from them, and shall be properly screened and ventilated, and at all times kept in a clean condition.

Regulation thereof.

Time for noonday meal regulated.

Section 9. Not less than forty-five minutes shall be allowed for the noonday meal in any manufacturing establishment in this State. The Factory Inspector, his assistant or any of his deputies, shall have power to issue permits in special cases, allowing a shorter meal time at noon, and such permits must be conspicuously posted in the main entrance of the establishment, and such permit may be revoked at any time the inspector deems necessary, and shall only be given where good cause can be shown.

Factory Inspector may issue permit for shorter time.

Heating, lighting, etc., regulated.

Section 10. That if the Factory Inspector, or any of his deputies, finds that the heating, lighting, ventilation or sanitary arrangement of any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office is such as to be injurious to the health of persons employed therein, or that the means of egress, in case of fire or other disaster, is not sufficient, or in accordance with all the requirements of law, or that the belting, shafting, gearing, elevators, drums and machinery in any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office are located so as to be dangerous to employes and not sufficient guarded, or that the vats, pans or structures filled with molten metal or hot liquid are not surrounded with proper safeguards for preventing accident or injury to those employed at or near them, he

Means of egress in case of fire shall be sufficient.

Machinery, etc., dangerous to employes shall be guarded.

Vats, etc., filled with molten metal, etc., to have proper safeguards.

shall notify the proprietor of such factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office, to make the alterations or additions necessary within sixty days, and any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office requiring exits or other safe-guards provided for in fire escape law, the same shall be erected and located by order of Factory Inspector regardless the exemption granted by any board of county commissioners, fire marshal or other authorities, and if such alterations and additions are not made within sixty days from the date of such notice, or within such time as said alterations can be made with proper diligence upon the part of such proprietors, said proprietors or agents shall be deemed guilty of violating the provisions of this act.

Factory Inspector shall notify persons violating act.

Violations shall be remedied within 60 days.

Section 11. It shall be the duty of the owner or owners of boilers used for the generating of steam to be applied to machinery in all industrial institutions subject to factory inspection, to furnish from time to time, as required by the Factory Department, reports or other evidence from competent authority as to the condition of the boilers used for the generating of steam to the State Factory Inspector. He or his deputies or other agents shall have the right, from time to time, to enter upon the premises where such boiler or boilers are kept for the purpose of inspecting the same and determining their safety, and any such boiler or boilers shall be found to be in a dangerous condition and liable to explode, it shall be the duty of the Factory Inspector, or one of his deputies, to notify the owner or owners thereof, his or their agent or engineer in charge, of such dangerous condition, and when so notified by the State Factory Inspector, his deputy or other agent, it shall be the duty of the owner or owners thereof to immediately cease the use of said boiler or boilers until placed in safe condition.

Owners of boilers to report condition thereof to Factory Inspector.

Factory Inspector may enter premises and inspect boilers.

If found dangerous boilers shall be placed in safe condition.

Section 12. The Factory Inspector, in order to more effectually carry out the provisions of this law, is hereby authorized to appoint a chief clerk for the department at a salary of fourteen hundred dollars per year, an assistant clerk at one thousand dollars per year, and a messenger at six hundred dollars per year.

Appointment of chief clerk, assistant and messenger.

Salaries.

Section 13. A printed copy of this act shall be furnished by the Inspector for each workroom of every

Printed copy of this act to be posted.

factory, manufacturing or mercantile industry where persons are employed who are affected by the provisions of this act, and it shall be the duty of the employer of the people employed therein to post and keep posted said printed copy of the law in each room.

Violation of act  
declared a mis-  
demeanor.

Section 14. Any person who violates any of the provisions of this act or who suffers or permits any child or female to be employed in violation of its provisions, shall be deemed guilty of a misdemeanor, and on conviction shall be punished by a fine of not more than five hundred dollars.

Penalty.

Section 15. All the acts or parts of acts inconsistent with the provisions of this act are hereby repealed.

Repeal.

Approved—The 29th day of April, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 26.

FRANK REEDER,  
Secretary of the Commonwealth.

## AN ACT

To amend the third section of an act, entitled "An act for the promotion of medical science by the distribution and use of unclaimed human bodies for scientific purposes through a board created for that purpose, and to prevent unauthorized uses and traffic in human bodies," approved the thirteenth day of June, one thousand eight hundred and eighty-three, to provide that incorporated anatomical societies of the county where the death of the person or such person described takes place shall be preferred to all others.

Section 1. Be it enacted, &c., That so much of section three of an act, entitled "An act for the promotion of medical science by the distribution and use of unclaimed human bodies for scientific purposes through a board created for that purpose, and to prevent unauthorized uses and traffic in human bodies," approved the thirteenth day of June, one thousand eight hundred and eighty-three, which reads as follows:

Section 3, act of  
June 13, 1883,  
cited for amend-  
ment.

"The said board or their duly authorized agent may take and receive such bodies so delivered as aforesaid, and shall, upon receiving them, distribute and deliver them to and among the schools, colleges, physicians and surgeons aforesaid, in manner following: Those

bodies needed for lectures and demonstrations by the said schools and colleges incorporated and unincorporated shall first be supplied, the remaining bodies shall then be distributed proportionately and equitably, preference being given to said schools and colleges, the number assigned to each to be based upon the number of students in each dissecting or operative surgery class, which number shall be reported to the board at such times as it may direct. Instead of receiving and delivering said bodies themselves, or through their agents or servants, the board of distribution may, from time to time, either directly or by their authorized officer or agent, designate physicians and surgeons who shall receive them, and the number which each shall receive: Provided always however, That schools and colleges incorporated and unincorporated, and physicians or surgeons of the county where the death of the person or such person described takes place, shall be preferred to all others: And provided also, That for this purpose such dead body shall be held subject to their order in the county where the death occurs for a period not less than twenty-four hours," be and the same is hereby amended to read as follows:

The said board or their duly authorized agent may take and receive such bodies so delivered as aforesaid, and shall upon receiving them, distribute and deliver them to and among the schools, colleges, physicians and surgeons aforesaid, in manner following: Those bodies needed for lectures and demonstrations by the said schools and colleges incorporated and unincorporated shall first be supplied; the remaining bodies shall then be distributed proportionately and equitably, preference being given to said schools and colleges; the number assigned to each to be based upon the number of students in each dissecting or operative surgery class, which number shall be reported to the board at such times as it may direct. Instead of receiving and delivering said bodies themselves, or through their agents or servants, the board of distribution may from time to time, either directly or by their authorized officer or agent, designate physicians and surgeons who shall receive them, and the number which each shall receive: Provided always however, That incorporated anatomical societies, schools and colleges, incorporated and unincorporated, and physi-

Distribution of bodies regulated.

Certain schools, etc., to be preferred.

How numbers assigned to each school shall be determined.

Board of distribution may designate physicians to act for them.

Proviso.

Proviso.

cians or surgeons of the county where the death of the person or such person described takes place, shall be preferred to all others: And provided also, That for this purpose such dead body shall be held subject to their order in the county where the death occurs for a period not less than twenty-four hours.

Approved—The 29th day of April, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 30.

FRANK REEDER,  
Secretary of the Commonwealth.

### AN ACT

To regulate the employment and provide for the health and safety of persons employed where clothing, cigarettes, cigars and certain other articles are made or partially made, and that said articles be made under clean and healthful conditions.

Rooms in tenement houses shall not be used for manufacturing articles mentioned.

Nor shall manufacturers employ persons to work therein.

Unless permit be obtained from Factory Inspector.

Contents of permit.

Permits not to be granted until inspection is made by Factory Inspector.

Permits may be revoked.

Permit must be framed and posted.

Section 1. Be it enacted, &c., That no room or apartment in any tenement or dwelling house shall be used for the manufacture of coats, vests, trousers, knee-pants, overalls, skirts, dresses, cloaks, hats, caps, suspenders, jerseys, blouses, waists, waist-bands, underwear, neckwear, furs, fur trimmings, fur garments, shirts, hosiery, purses, feathers, artificial flowers, cigarettes or cigars; and no person, firm or corporation shall hire or employ any person to work in any room, apartment, or in any building or parts of buildings, at making in whole or in part any of the articles mentioned in this section, without first obtaining a written permit from the Factory Inspector, or one of his deputies, stating the maximum number of persons allowed to be employed therein, and that the building or part of building intended to be used for such work or business is thoroughly clean, sanitary and fit for occupancy for such work or business. Such permit shall not be granted until an inspection of such premises is made by the Factory Inspector or one of his deputies. Said permit may be revoked by the Factory Inspector at any time the health of the community or of those so employed may require it. It shall be framed and posted in a conspicuous place in the room, or in one of the rooms to which it relates.



Every person, firm, company or corporation contracting for the manufacture of any of the articles mentioned in this section, or giving out the incomplete material from which they or any of them are to be made, or to be wholly or partially finished shall, before contracting for the manufacture of any of said articles, or giving out said material from which they or any of them are to be made, require the production by such contractor, person or persons of said permit from the Factory Inspector as required in this section, and shall keep a written register of the names and addresses of all persons to whom such work is given to be made, or with whom they may have contracted to do the same. Such register shall be produced for inspection and a copy thereof shall be furnished on demand made by the Factory Inspector or one of his deputies: Providing that nothing in this section shall be so construed as to prevent the employment of a seamstress by any family for manufacturing articles for such family use.

Contractors shall require production of said permit.

And shall keep a register of names, etc., to whom work is given. etc.

Proviso.

Section 2. Not less than two hundred and fifty cubic feet of air space shall be allowed for each and every person in any workroom where persons are employed at such labor as hereinbefore described. There shall be sufficient means of ventilation provided in each workroom of every such establishment, and said workroom or rooms in said establishment shall be kept thoroughly clean, sanitary and fit for occupancy for such work or business. The Factory Inspector and Deputy Factory Inspector, under the direction of the Factory Inspector, shall notify the owner, agent or lessee in writing to provide, or cause to be provided, ample and proper means for ventilating such workroom or rooms, and to put said workroom or rooms in a thoroughly clean, sanitary and fit condition for occupancy for such work or business, and shall prosecute such owner, agent or lessee if such notification be not complied with within ten days of the service of such notice; and any factory or shop under this act requiring exits or other safeguards provided for in the fire escape law, the same shall be erected and located by order of Factory Inspector regardless of the exemption granted by any board or county commissioners, fire marshals or other authorities, and if such alterations and additions are not made within sixty days from the date of such

Amount of air space allowed each person.

Ventilation of work-rooms provided for.

Shall be kept thoroughly clean.

Duty of Factory Inspector as to ventilation and sanitary conditions.

May prosecute persons violating this act.



notice, or within such time as said alterations can be made with proper diligence upon the part of such proprietors, said proprietors or agents shall be deemed guilty of violating the provisions of this act.

Factory Inspector shall furnish printed copy of this act.

Section 3. A printed copy of this act shall be furnished by the Inspector for each workroom of every factory, manufacturing or mercantile house where persons are employed who are affected by the provisions of this act, and it shall be the duty of the employer of the person employed therein to post and keep posted said printed copy of the law in each room.

Violation of this act declared a misdemeanor.

Section 4. Any person who violates any of the provisions of this act, or refuses to comply with any requirements of the Factory Inspector or a Deputy Factory Inspector, as provided herein, shall be guilty of a misdemeanor, and on conviction shall be punished by a fine of not less than twenty dollars nor more than fifty dollars for a first offense, and not less than fifty dollars nor more than one hundred dollars for a second offense, or imprisonment for not more than ten days, and for a third offense by a fine of not less than two hundred and fifty dollars and not more than thirty days imprisonment.

Penalty.

Repeal.

Section 5. All the acts or parts of acts inconsistent with the provisions of this act are hereby repealed.

Approved—The 5th day of May, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 37.

FRANK REEDER,  
Secretary of the Commonwealth.

## AN ACT

To prevent and punish the loan, gift, sale or distribution of indecent and immoral writings, printings, pictures, photographs, or representations of all matters of an indecent or immoral character, and of all articles, drugs, recipes, et cetera, to prevent conception, or to produce unlawful abortion, or intended or purporting to be used for such purposes, or either of them, and also to prevent the advertisement, exhibition or publication of the same, and to authorize the seizure and destruction of all such matter.

Selling, loaning, giving or advertising any of the articles mentioned in this act prohibited.

Section 1. Be it enacted, etc., That a person who sells, lends, gives away or shows, or offers to sell, lend or give away or show, or has in his possession

with intent to sell, lend or give away or show, or advertises in any manner, or who otherwise offers for loan, gift, sale or distribution, any obscene, lewd, lascivious, filthy, indecent or disgusting book, magazine, pamphlet, newspaper, story paper, paper, writing, drawing, photograph, figure or image, or any written or printed matter of an indecent character, or any article or instrument of indecent or immoral use or purporting to be for indecent or immoral use or purpose, or who designs, copies, draws, photographs, prints, utters, publishes or in any manner manufactures or prepares any such book, picture, drawing, magazine, pamphlet, newspaper, story paper, paper, writing, figure, image, matter, article or thing, or who writes, prints, publishes or utters, or causes to be printed, published or uttered, any advertisement or notice of any kind giving information directly or indirectly, stating or purporting to do so where, how, of whom or by what means any, or what purports to be any obscene, lewd, lascivious, filthy, disgusting or indecent book, picture, writing, paper, figure, image, matter, article or thing named in this section can be purchased, obtained or had, or who prints, utters, publishes, sells, lends, gives away or shows or has in his possession with intent to sell, lend, give away, or show, or otherwise offers for sale, loan or gift, or distribution any pamphlet, magazine, newspaper or other printed paper devoted to the publication and principally made up of criminal news, police reports or accounts of criminal deeds, or pictures or stories of deeds of bloodshed, lust or crime, or who in any manner hires, employs, uses or permits any minor or child to do or assist in doing any act or thing mentioned in this section, or any of them, is guilty of a misdemeanor, and upon conviction shall be sentenced to not more than one year imprisonment, or be fined not more than one thousand dollars, or both, for each offense.

Giving notice where said articles, etc., can be obtained prohibited.

Hiring persons to assist in violation of act prohibited.

Penalty.

Section 2. A person who sells, lends, gives away or in any manner exhibits or offers to sell, lend or give away, or has in his possession with intent to sell, lend or give away, or advertises or offers for sale, loan or distribution, any instrument or article, or any recipe, drug or medicine for the prevention of conception, or for causing unlawful abortion, or advertises

Selling or advertising any article or thing to prevent conception or cause abortion, prohibited.

And declared a misdemeanor.

Penalty.

Magistrates must issue warrants upon complaints made.

To whom warrants shall be directed.

Duty of officer.

Articles seized must be delivered to district attorney.

And be destroyed by him and the fact entered on record.

or holds out representations that it can be so used or applied, or any such description as will be calculated to lead another to so use or apply any such article, recipe, drug, medicine or instrument, or who writes or prints, or causes to be written or printed, a card, circular, pamphlet, advertisement or notice of any kind, or gives information orally stating when, where, how, of whom or by what means such an instrument, article, recipe, drug or medicine can be purchased or obtained, or who manufactures any such instrument, article, recipe, drug or medicine, is guilty of a misdemeanor, and shall be liable to the same penalties as provided in section one of this act.

Section 3. A magistrate having jurisdiction to issue warrants in criminal cases, upon complaint that any person within his jurisdiction is offending against the provisions of this act, supported by oath or affirmation, must issue a warrant directed to the sheriff, or to any constable, marshal or police officer within the county, directing him to search for, seize and take possession of any of the articles specified in this chapter in the possession of the person against whom complaint is made. The magistrate must immediately transmit every article seized by virtue of the warrant to the district attorney of the county, who must, upon conviction of the person from whose possession the same was taken, cause it to be destroyed and the fact of such destruction to be entered upon the records of the court in which the conviction is had.

Approved—The 12th day of May, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 51.

FRANK REEDER,  
Secretary of the Commonwealth.

### AN ACT

Granting the permission and regulating the establishment and operation of bone boiling establishments and depositories of dead animals in the Commonwealth of Pennsylvania, and providing for violations of the provisions of this act.

Bone boiling establishments regulated.

Section 1. Be it enacted, &c., That from and after the passage of this act, bone boiling establishments and depositories of dead animals may be established and

operated in this Commonwealth under the following conditions, to wit: That no establishment for bone boiling or depository of dead animals shall continue to be operated or shall be erected and operated within any city or borough within this Commonwealth, unless the permission of the board of health of said city or borough shall have been obtained, and the said establishment shall be conducted in accordance with the regulations prescribed by the said board of health; and further, in case a bone boiling establishment or depository of dead animals exists, or is erected and conducted in a township in any county of this Commonwealth, the same shall be conducted under the supervision and subject to the regulations prescribed by the State Board of Health. And every person offending against the provisions of this act, shall for every such offense, and each month's continuance of the same after notice, forfeit and pay to the board of health if in a city or borough, or to the school board of the district or township if in a township, the sum of fifty dollars, to be recovered as debts of that amount are recoverable, and also be liable to indictment at common law for creating and maintaining a nuisance.

Must have permission of local board of health in cities and boroughs.

And of State Board of Health in townships.

Persons violating act subject to fine.

May also be indicted for creating a nuisance.

Section 2. All local or general laws in this Commonwealth inconsistent herewith are hereby repealed.

Repeal.

Approved—The 19th day of May, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 56.

FRANK REEDER,  
Secretary of the Commonwealth.

## AN ACT

To prevent the adulteration, alteration and substitution of drugs and medicinal preparations, and providing penalties for violation thereof.

Section 1. Be it enacted, &c., That no person shall, within this State, manufacture for sale, offer for sale or sell, any drug which is adulterated within the meaning of this act. The term drug used herein shall include any medicinal substance or any preparation authorized or known in the "Pharmacopeia of the United States," or the "National Formulary," or the American Homeopathic Pharmacopoeia or the American Homeopathic Dispensatory.

Selling of adulterated drugs.

Definition of term "drug."

When drugs shall  
be deemed to be  
adulterated.

A drug shall be deemed to be adulterated within the meaning of this act:

1. If any substance or substances have been mixed with it so as to depreciate and weaken its strength, purity or quality.

2. If any quality, substance or ingredient be abstracted so as to deteriorate or effect injuriously the quality or potency of the said drug.

3. If any inferior or cheaper substance or substances have been substituted in whole or part for it.

4. If it is an imitation or is sold under the name of another drug.

5. If the drug shall be so altered that the nature, quality, substance, commercial value or medicinal value of it will not correspond to the recognized formula or tests of the latest edition of the "National Formulary," or of the "Pharmacopoeia of the United States," or the American Homeopathic Pharmacopoeia or the American Homeopathic Dispensatory, regarding quality or purity.

Power of State  
Pharmaceutical  
Examining Board.

On complaint being entered, the State Pharmaceutical Examining Board is hereby empowered to employ an analyst or chemist expert, whose duty it shall be to examine into the so-claimed adulteration and report upon the results of his investigation, and if said report justifies such action, the Board shall duly cause the prosecution of the offender as provided in this law.

Violation of act  
declared a misde-  
meanor.

Whoever violates any of the provisions of this act shall be guilty of a misdemeanor, and upon conviction shall be fined a sum not exceeding one hundred dollars, or undergo an imprisonment not exceeding ninety days, or both.

Penalty.

Section 2. All laws or parts of laws inconsistent herewith are hereby repealed.

Repeal.

Approved—The 25th day of May, A. D. 1897.

DANIEL H. HASTINGS.

## AN ACT

To protect the health of the domestic animals of the Commonwealth of Pennsylvania.

Importation of  
cattle for breed-  
ing purposes pro-  
hibited.

Section 1. Be it enacted, &c., That the importation of dairy cows and neat cattle for breeding purposes into the Commonwealth of Pennsylvania is hereby

prohibited, excepting when such cows and neat cattle are accompanied by a certificate from an inspector, whose competency and reliability are certified to by the authorities charged with the control of the diseases of domestic animals in the State from whence the cattle came, certifying that they have been examined and subjected to the tuberculin test and are free from disease.

Exceptions.

Section 2. That in lieu of an inspection certificate as above required, the cattle may be detained at suitable stock yards nearest to the State line on the railroad over which they are shipped, and there examined at the expense of the owner, or cattle as above specified from points outside of the State may, under such restrictions as may be provided by the State Live Stock Sanitary Board, be shipped in quarantine to their destination in Pennsylvania, there to remain in quarantine until properly examined at the expense of the owner, and released by the State Live Stock Sanitary Board.

Detention of cattle.

And examination thereof.

Under restriction of State Live Stock Sanitary Board.

Section 3. The State Live Stock Sanitary Board is hereby authorized and empowered to prohibit the importation of domestic animals into the Commonwealth of Pennsylvania, whenever in their judgment such measures may be necessary for the proper protection of the health of the domestic animals of the Commonwealth, and to make and enforce rules and regulations governing such traffic as may from time to time be required.

Powers of said Board.

Section 4. That any person, firm or corporate body violating the provisions of this act, shall be deemed guilty of a misdemeanor, and upon conviction shall, in the proper court of the county in which such cattle are sold, offered for sale, delivered to a purchaser, or in which such cattle may be detained in transit, for each offense, forfeit and pay a fine of not less than fifty dollars or more than one hundred dollars, or be punished by imprisonment for not less than ten days, and not exceeding thirty days, either or both, at the discretion of court. Such person, firm or corporate body shall be liable for the full amount of the damages that may result from the violation of this act.

Violation of act declared a misdemeanor.

Penalty.

Liability for damages.

Section 5. The State Live Stock Sanitary Board is hereby charged with the enforcement of this act, and is authorized to see that its provisions are obeyed, and

State Live Stock Sanitary Board shall enforce act.

to make, from time to time, such rules and regulations as may be necessary and proper for its enforcement.

When act shall go into effect.

Section 6. That this act shall go into effect January first, one thousand eight hundred and ninety-eight.

Approved—The 26th day of May, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 82.

FRANK REEDER,  
Secretary of the Commonwealth.

AN ACT

To regulate the manufacture of flour and meal food products.

Employes shall not be employed more than 6 days in any one week.

When week shall commence and terminate.

Employment of persons under 18 years of age prohibited.

Exceptions.

Drainage and plumbing of buildings.

Ventilation.

Use of cellar or basement prohibited.

Construction of rooms.

Finishing of walls and ceilings.

Section 1. Be it enacted, &c., That no employé shall be required, permitted or suffered to work in a biscuit, bread or cake bakery, confectionery establishment more than six (6) days in any one week, said week to commence on Sunday not before six o'clock post meridian, and to terminate at the corresponding time on Saturday of the same week. No person under the age of eighteen (18) years shall be employed in any bakehouse between the hours of nine (9) o'clock at night and five (5) o'clock in the morning. Excepted from this rule shall be the time on Sunday for setting the sponges for the night's work following.

Section 2. All buildings or rooms occupied as a biscuit, bread, pretzel, pie or cake bakery, or maccaroni establishment, shall be drained and plumbed in the manner directed by the rules and regulations governing the house drainage and plumbing as prescribed by law, and all rooms used for the purpose aforesaid shall be ventilated by means of air shafts, windows or ventilating pipes, so as to insure a free circulation of fresh air. No cellar or basement, not now used for a bakery, shall hereafter be occupied and used as a bakery, unless the proprietor shall have previously complied with the sanitary provisions of this act.

Section 3. Every room used for the manufacture of flour or meal food products shall have an impervious floor, constructed of cement or of tiles laid in cement, or of wood which all the crevices shall be filled in with putty, and the whole surface treated with oil varnish. The inside walls and ceiling shall be plaster-



ed, and either be painted with oil paint, three (3) coats, or be lime-washed, or the side walls plastered and wainscoted to the height of six (6) feet from the floor and painted or oiled; when painted, shall be renewed at least once in every five (5) years, and shall be washed with hot water and soap at least once in every three (3) months; when lime-washed the lime-washing shall be renewed at least once in every three (3) months. The furniture and utensils in such rooms shall be so arranged that the furniture and floor may at all times be kept in a thoroughly sanitary and clean condition. No domestic or pet animal shall be allowed in a room used as a biscuit, bread, pie or cake bakery, or in any room in such bakery where flour or meal products are stored.

Renewal of paint and lime-wash.

Furniture and utensils.

Domestic or pet animals not allowed in rooms.

Section 4. The manufactured flour meal food products shall be kept in perfectly dry and airy rooms, so arranged that the floors, shelves and all other places for storing the same can be easily and perfectly cleaned.

Keeping of manufactured products.

Section 5. Every such bakery shall be provided with a proper wash-room and water closet or closets, apart from the bake room or rooms where the manufacture of such food products is conducted, and no water closet, earth closet, privy or ash pit shall be within or communicate directly with the bake room of any bakery, hotel or public restaurant.

Providing wash rooms, etc.

Closets, etc.

Section 6. Every sleeping room for persons employed in every bakery shall be kept separate from the room or rooms where flour or meal products are manufactured or stored, and shall be provided with one or more external glazed windows, each of which shall be at least nine (9) superficial feet in area, of which at least four and one-half (4 1-2) superficial feet shall be made to open for ventilation; and such sleeping places, when they are on the same floor as the bakery, shall be inspected in order to maintain them in a condition of cleanliness.

Sleeping rooms of employes.

Size of windows.

Ventilation.

Rooms subject to inspection.

Section 7. No employer shall knowingly require, permit or suffer any person to work in his bakeshop who is affected with consumption of the lungs, or with scrofulous diseases, or with any venereal diseases, or with any communicable skin affection, and every employer is hereby required to maintain himself and his employes in a clean condition while engaged in the manufacture, handling or sale of such food products,

Persons affected with consumption, etc., shall not be employed.

Duty of employer.



Duty of Board of Health.

and it is hereby made the duty of the Board of Health to enforce the provisions of this section.

Factory Inspector or deputy to enforce act.

Section 8. Any person who violates any of the provisions of this act, or refuses to comply with any requirements as provided herein of the Factory Inspector or his deputy, who are hereby charged with the enforcement of this act, excepting section seven, shall be guilty of a misdemeanor, and on conviction shall be punished by a fine not less than twenty nor more than fifty (50) dollars for a first offense, and not less than fifty (50) nor more than one hundred (100) dollars for a second offense, or imprisonment for not more than ten (10) days; and for a third offense, by a fine of not less than two hundred and fifty (250) dollars and more than thirty (30) days imprisonment.

Violation of act declared a misdemeanor.

Penalty, first offense.

Second offense.

Third offense.

Factory Inspector to issue certificate.

Section 9. The Factory Inspector is authorized to issue a certificate of satisfactory inspection to a person conducting a bakery where such bakery is conducted in compliance with all the provisions of this act.

Owner must comply within thirty days after notice.

Section 10. The owner, agent or lessee of any property affected by the provisions of sections, two, three and five of this act, shall, within thirty (30) days after the service of a notice requiring any alterations to be made in or upon such premises, comply therewith, and such notices shall be in writing and may be served upon such owner, agent or lessee, either personally or by mail, and notice to the last known address of such owner, agent or lessee shall be deemed sufficient for the purpose of this act.

Form and service of notice.

Copy of act to be posted.

Section 11. A copy of this act shall be conspicuously posted and kept posted in each workroom of every bread, cake or pie bakery, or confectionery establishment in this State.

When act shall go into effect.

Section 12. This act shall take effect thirty (30) days after the same shall have been approved and signed by the Governor of this Commonwealth.

Approved—The 27th day of May, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 95.

FRANK REEDER

Secretary of the Commonwealth.

## AN ACT

Regulating the location of cemeteries, hospitals and pest houses in cities of the second class of this Commonwealth.

Section 1. Be it enacted, &c., That hereafter no cemetery, hospital or pest house shall be constructed within the limits of any city of the second class in this Commonwealth until the location thereof shall have been approved by the mayor of the city, the director of public charity and the director of public works, or a majority of said three officials.

Approved—The 10th day of June, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 113.

FRANK REEDER,  
Secretary of the Commonwealth.

## AN ACT

To prohibit the adulteration or coloring of milk or cream by the addition of so called preservatives or coloring matter, and to provide for the enforcement of the same.

Section 1. Be it enacted, &c., That the sale or offering for sale of milk or cream for human consumption in this Commonwealth, to which has been added boracic acid, salt boracic acid, salicyclic acid, salicylate of soda, or any other injurious compound or substance for artificially coloring the same shall be a misdemeanor and punishable by a fine of not less than fifty nor more than one hundred dollars, or imprisonment not exceeding sixty days, or both, or either, at the discretion of the court.

Selling adulterated milk or cream declared to be a misdemeanor.

Penalty.

Section 2. The agent of the Department of Agriculture, known as the Dairy and Food Commissioner, shall be charged with the enforcement of all the provisions of this act, and shall have all the power to enforce this act that is given him to enforce the provisions of the act by which he receives his appointment.

Dairy and Food Commissioner charged with enforcement of act.

Section 3. All penalties and costs for the violation of the provisions of this act shall be paid to the Dairy and Food Commissioner or his agent, and by him paid into the State Treasury, to be kept as a fund, separate and apart, for the use of the Department of Agriculture for the enforcement of this act, and to be

Payment of penalties and costs.

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drawn out upon warrant signed by the Secretary of Agriculture and the Auditor General.

Repeal.

Section 4. All acts or parts of acts inconsistent with the provisions of this act are hereby repealed.

Approved—The 10th day of June, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 118.

FRANK REEDER,  
Secretary of the Commonwealth.

### AN ACT

Amending second section of "An act to regulate the employment and to provide for the health and safety of men, women and children in manufacturing establishments, mercantile industries, laundries, renovating works or printing offices, and to provide for the appointment of inspectors, office clerks and others to enforce the same," approved the twenty-ninth day of April, Anno Domini one thousand eight hundred and ninety-seven.

Section 1. Be it enacted, &c., That the second section of an act, entitled "An act to regulate the employment and provide for the health and safety of men and women and children in manufacturing establishments, mercantile industries, laundries, renovating works or printing offices, and to provide for the appointment of inspectors, office clerks and others to enforce the same," approved the twenty-ninth day of April, one thousand eight hundred and ninety-seven, which reads as follows:

Section 2, act of April 29, 1897, cited for amendment.

"Section 2. That no child under thirteen years of age shall be employed in any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office within this State. It shall be the duty of every person so employing children to keep a register in which shall be recorded the name, birthplace, age and place of residence, name of parent or guardian, and date when employment ceases, of every person so employed by him under the age of sixteen years. And it shall be unlawful for any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office, to hire or employ any child under the age of sixteen years, without there is first provided and placed on

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file an affidavit made by the parent or guardian, stating the age, date and place of birth of said child. If said child have no parent or guardian, then such affidavit shall be made by the child, which affidavit shall be kept on file by the employer and shall be returned to the child when employment ceases, and in no case shall there be a charge to exceed twenty-five cents for administering the oath for the issuing of the above certificates. And after the first day of January, one thousand eight hundred and ninety-eight, it shall be unlawful for any manufacturing establishment, mercantile industry, laundry, renovating works, printing office, mercantile or other industrial establishment to employ any minor who cannot read and write in the English language, unless he presents a certificate of having attended during the preceding year, an evening or day school for a period of sixteen weeks. Said certificate shall be signed by the teacher or teachers of the school or schools which said minor attended, and said register, affidavit and certificates shall be produced for inspection on demand by the inspector or any of the deputies appointed under this act," be amended to read as follows:

Section 2. No child under thirteen years of age shall be employed in any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office within this State. It shall be the duty of every person so employing children to keep a register in which shall be recorded the name, birth-place, age and place of residence, name of parent or guardian, and date when employment ceases, of every person so employed by him under the age of sixteen years. And it shall be unlawful for any factory, manufacturing or mercantile industry, laundry, workshop, renovating works or printing office, to hire or employ any child under the age of sixteen years, without there is first provided and placed on file an affidavit made by the parent or guardian, stating the age, date and place of birth of said child. If said child have no parent or guardian, then such affidavit shall be made by the child, which affidavit shall be kept on file by the employer and shall be returned to the child when employment ceases; and in no case shall there be a charge to exceed twenty-five cents for administering the oath for the issuing of the above

Children under 13 years shall not be employed.

Employers shall keep a register.

Contents of register.

Children under 16 shall not be employed, unless affidavit is filed.

Cost of affidavit.

Minors under 16  
who cannot read  
or write shall not  
be employed.

Exceptions.

Certificates to be  
signed by teach-  
ers.

certificate. And after the first day of January, one thousand eight hundred and ninety-eight, it shall be unlawful for any manufacturing establishment, mercantile industry, laundry, renovating works, printing office, mechanical or other industrial establishment to employ any minor under the age of sixteen years who cannot read and write in the English language, unless he presents a certificate of having attended during the preceding year, an evening or day school for a period of sixteen weeks. Said certificate shall be signed by the teacher or teachers of the school or schools which said minor attended, and said register, affidavit and certificates shall be produced for inspection on demand by the inspector or any of the deputies appointed under this act.

Approved the 14th day of June, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 123.

FRANK REEDER,  
Secretary of the Commonwealth.

### AN ACT

Providing for the regulation of the manufacture and sale of distilled and fermented vinegars, prescribing their standard, to prevent the pollution of the same, providing for the enforcement thereof, and punishment for the violation of the same.

Selling vinegar  
regulated.

Cider vinegar  
must be product  
of apple juice.

Foreign substance  
shall not be used.

Acidity and  
weight.

Fruit vinegar.

Section 1. Be it enacted, &c., That from and after the passage of this act no person, firm or corporate body shall manufacture for sale, offer for sale, or expose for sale, sell or deliver, or have in his, her or their possession with intent to sell or deliver, any vinegar not in compliance with the provision of this act. No vinegar shall be sold or exposed for sale as apple or cider vinegar which is not the legitimate product of pure apple juice, or vinegar not made exclusively of said apple cider, or vinegar in which foreign substances, drugs or acids shall have been introduced as may appear upon proper test, and upon said test shall contain not less than an acidity of four per centum and one and one-half per centum by weight of cider vinegar solids upon full evaporation at the temperature of boiling water; no vinegar shall be branded "fruit vinegar"

unless the same be made wholly from grapes, apples or other fruits.

Section 2. All vinegar made by fermentation and oxidation, without the intervention of distillation, shall be branded "fermented vinegar," with the name of the fruit or substance from which the same is made. And all vinegar made wholly or in part from distilled liquor shall be branded "distilled vinegar," and all such distilled vinegar shall be free from coloring matter added before, during or after distillation, and from color other than that imparted to it by the process of distillation. And all fermented vinegar, not distilled, shall contain not less than one and one-half per centum by weight on full evaporation (at the temperature of boiling water), of solids derived from the fruit or grain from which said vinegar is fermented. And all vinegar shall be made wholly from the fruit or grain from which it is represented to be made, and shall contain no foreign substance, and shall contain not less than four per centum by weight of absolute acetic acid: Provided, That this shall not be construed to prohibit the use of such an amount of spices as are necessary for flavoring, provided such spices do not color the vinegar.

Fermented vinegar.

Distilled vinegar.

Weight on full evaporation.

Vinegar must be made from fruit or grain represented.

Proviso.

Section 3. No person, firm or corporate body shall manufacture for sale, offer for sale, or have in his, her or their possession with intent to sell or expose for sale, any vinegar found upon proper test to contain any preparation of lead, copper, sulphuric or other mineral acid, or other ingredients injurious to health. And all packages containing vinegar shall be plainly and distinctly marked on each head of the cask, barrel or keg containing such vinegar, or if sold in other packages, each package shall be plainly and distinctly marked with the name and residence of the manufacturer, together with the brand required in section two thereof.

Selling vinegar containing ingredients injurious to health prohibited.

Packages containing vinegar must be marked.

Section 4. Every person, firm or corporate body who shall violate any of the provisions of this act shall, for every such offense, forfeit and pay not less than fifty dollars, nor more than one hundred dollars, which shall be recoverable, with costs, including expense of inspection and analysis, by any person suing in the name of the Commonwealth as debts of like amount are by law recoverable: Provided, That the Department of Agriculture, through its officer known as the Dairy and

Penalty for violation of act.

Dairy and Food  
Commissioner  
charged with en-  
forcement of act.

Shall have access  
to all places of  
business, etc.

Payment of pen-  
alties regulated.

Violation of act a  
misdemeanor.

Penalty for first  
offense.

Second offense.

Proviso.

Judisdiction of  
magistrates and  
justices of the  
peace.

Food Commissioner, together with the deputies, agents and assistants, shall be charged with the enforcement of this act, and shall have full access to all places of business, factories, mills, buildings, carriages, cars, vessels, barrels, tanks and packages of whatever kind used in the manufacture and transportation and sale of any vinegar, or of any adulteration or imitation thereof, or any package in which vinegar is mixed with articles of food. They shall also have power and authority to open any package, barrel or vessel containing any vinegar, or any adulteration or imitation thereof, which may be manufactured, sold or exposed for sale, and they shall also have full power and authority to take the samples therefrom for analysis upon tendering the value of said samples. And all charges, accounts and expenses of the Department for the enforcement of this act, through the said commissioner and his deputies, agents, assistants, chemist and counsel employed by him, in carrying out the provisions of this act, shall be paid by the Treasurer of the State in the same manner as other accounts and expenses of the said Department are paid. And all penalties and costs for the violation of the provisions of this act shall be paid to the said Dairy and Food Commissioner, or his agents, and by him immediately covered into the State Treasury, to be kept as a fund for the use of the Department, and to be drawn out upon warrant signed by the Secretary of Agriculture and the Auditor General.

Section 5. Every person who violates any of the provisions of this act shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not less than fifty dollars, nor more than one hundred dollars, or by imprisonment in the county jail for not less than ten or more than thirty days, or both fine and imprisonment for the first offense, and a fine of one hundred dollars or imprisonment for thirty days for every subsequent offense: Provided, That all fines and costs, including the expense of inspection and analysis imposed under this section, shall be covered into the State Treasury as provided by section four of this act, and all vinegar sold or offered for sale in violation of the provisions of this act shall be subject to forfeiture and spoilation.

Section 6. Magistrates and justices of the peace



throughout this Commonwealth shall have jurisdiction to hear and determine actions arising for violations of the provisions of this act, and to hold for court, or impose the penalties provided therein, subject to appeal as the law shall direct.

Section 7. All acts or parts of acts inconsistent with the provisions of this act are hereby repealed. Repeal.

Approved—The 18th day of June, A. D. 1897.

DANIEL H. HASTINGS.

### AN ACT

To prevent fraud and deception in the manufacture and sale of cheese, and defining what shall constitute the various grades of cheese, providing rules and regulations for marking and branding the same, providing for the enforcement of this act, prescribing penalties for its violation.

Section 1. Be it enacted, &c., That no person, firm or corporate body shall manufacture, sell, offer for sale or have in his or their possession with intent to sell, any cheese not the legitimate product of pure, unadulterated milk or cream, or any cheese into which any foreign fats or substances have been introduced as may appear upon proper test.

**Manufacture of cheese regulated.**

Section 2. All cheese manufactured or sold within this Commonwealth shall be divided into five grades, and shall be branded or stenciled in ordinary bold-faced capital letters, not less than one inch in height, on two sides of each cheese, and upon the top and bottom of box or case containing the cheese, the manufacturer's name and post office address, and the words "Full Cream," "Three-fourths Cream," "One-half Cream," "One-fourth Cream," and "Skimmed Cheese." All cheese branded "Full Cream," shall contain not less than thirty-two per centum of butter fat as may appear by proper test. All cheese branded "Three-fourths Cream," shall contain not less than twenty-four per centum of butter fat as may appear by proper test. All cheese branded "One-half Cream," shall contain not less than sixteen per centum of butter fat as may appear upon proper test. All cheese branded "One-fourth Cream," shall contain not less than eight per centum of butter fat as may appear upon proper test. And all cheese containing less than eight per centum of butter fat, as may appear upon proper test, shall be branded "Skimmed Cheese."

**Cheese shall be divided into five grades.**

**How they shall be branded.**

**Full cream.**

**Three-fourths cream.**

**One-half cream.**

**One-fourth cream.**

**Skimmed cheese.**



Violation of act.

Penalty.

Jurisdiction of justices of the peace and aldermen.

Dairy and Food Commissioner charged with enforcement of act.

Power and authority of said commissioner.

Payment of fines and penalties.

Proviso.

When act shall go into effect.

Section 3. Every person, firm or corporation who shall violate any of the provisions of this act shall, for every such offense, forfeit and pay the sum of not less than fifty dollars, nor more than one hundred dollars, together with all charges and expenses for inspection and analysis connected therewith, by any person suing therefor in the name of the Commonwealth, as debts of like amount are by law recoverable; and justices of the peace and aldermen throughout this Commonwealth, shall have jurisdiction to hear and determine all actions arising under the provisions of this act, and all cheese not in accordance with this act shall be subject to forfeiture and spoilation: Provided, That the Department of Agriculture, through its officers known as the Dairy and Food Commissioner, together with his deputies, agents and assistants, shall be charged with the enforcement of the provisions of this act, and shall have authority to enter any building or factory where the same is sold or manufactured or exposed for sale, and shall have the right to take samples sufficient for analysis, upon tendering the value thereof. All fines and penalties, including also all charges for inspection and analysis, shall be paid to the Dairy and Food Commissioner, his deputies, agents or assistants, and by him immediately covered into the State Treasury, and so much of said fund as may be necessary for the enforcement of this act shall be drawn out upon warrants signed by the Secretary of Agriculture and Auditor General: Provided, That the provisions of this act shall not be construed to apply to such cheese as is known as "fancy" cheese and is under five pounds in weight, each; or to what is known as cottage cheese or pot cheese, and do not contain anything injurious to health.

Section 4. This act shall take effect sixty days after its approval by the Governor of the Commonwealth.

Approved—The 23d day of June, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 164.

FRANK REEDER,  
Secretary of the Commonwealth.

## AN ACT.

To establish a Dental Council and a State Board of Dental Examiners, to define the powers and duties of said Dental Council and said State Board of Dental Examiners, to provide for the examination and licensing of practitioners of dentistry, and to further regulate the practice of dentistry.

Whereas, The health and comfort of the public, and in many instances the lives of individuals, are contingent upon intelligent and competent dental service;

And Whereas, Properly educated and efficient practitioners of dentistry are therefore a public necessity;

And Whereas, It is expedient to assimilate the laws regulating the practice of dentistry with those now pertaining to the practice of medicine and surgery in this Commonwealth;

Section 1. Be it enacted, &c., That there shall be established a Dental Council of Pennsylvania, consisting of the Superintendent of Public Instruction, the President of the State Board of Health and Vital Statistics, and the president, for the time being, of the Pennsylvania Dental Society.

Section 2. The said council shall be known by the name and style of the Dental Council of Pennsylvania, and may make and adopt for its government all necessary rules and regulations and by-laws, not inconsistent with the Constitution and the laws of this Commonwealth or of the United States, and shall have power to locate and maintain an office within this State for the transaction of business. Two members of the said council, one of whom shall be the president of the Pennsylvania State Dental Society, shall constitute a quorum for the transaction of business. In case of the absence of the president of the Pennsylvania State Dental Society from any unavoidable cause, he may nominate in writing one of the vice-presidents of that society to represent him at the meetings of the Dental Council of Pennsylvania, and the person so nominated shall be entitled to vote at the meetings, and his presence shall be equivalent to that of the president of the Pennsylvania State Dental Society in constituting a quorum of the said Dental Council.

Section 3. The said council shall organize at Harrisburg within thirty days from the date of the organization of the Board of Dental Examiners, and shall elect from its own number a president. The secretary

Preamble No. 1.

Preamble No. 2.

Preamble No. 3.

Dental Council established.

Members of Board.

Name of Council.

Power to adopt by-laws, etc.

Quorum.

If President of State Dental College is absent he may nominate one of the Vice-Presidents.

Organization. of officers and terms of office.

of the Dental Council, who shall also act as treasurer, shall be the secretary and treasurer, for the time being, of the Medical Council of Pennsylvania. The president and secretary shall hold their office for one year, or until their successors are chosen.

Stated and special meetings of Dental council.

Duties.

Section 4. The said Dental Council shall hold two stated meetings in each year, at Harrisburg, and they may hold special meetings at such times and places as they deem proper. They shall supervise the examinations conducted by the State Board of Dental Examiners of all applicants for license to practice dentistry in this Commonwealth, for the purpose of securing the conduct of examinations in harmony with the provisions of this act, and shall issue licenses to practice dentistry to such applicants as have presented satisfactory and properly certified copies of licenses from the State Boards of Dental Examiners, or State Board of Health of other states as provided for in section twelve of this act.

Board of Dental Examiners shall continue.

Number of members.

Term of those first appointed.

State Dental Society may select names of nominees.

And transmit same to Governor.

Governor shall appoint.

Section 5. It is further enacted that from and after the first day of September, Anno Domini one thousand eight hundred and ninety-seven, there shall be and continue to be a Board of Dental Examiners for the State of Pennsylvania, which shall consist of six members, and each of said members shall serve for a term of three years from the first day of September next after his appointment, with the exception of those first appointed who shall serve as follows, namely: Two for one year, two for two years, and two for three years from the first day of September, Anno Domini one thousand eight hundred and ninety-seven. The Pennsylvania State Dental Society may, at its annual meeting in one thousand eight hundred and ninety-seven, and annually thereafter at said meeting, select as nominees the names of double the number of examiners required, who shall be members in good standing of the society, and transmit such names to the Governor under its seal and signed by its secretary. From this list of nominees the Governor shall, during the month of August, Anno Domini one thousand eight hundred and ninety-seven, appoint a board of dental examiners. In case of failure of the said Pennsylvania State Dental Society to submit such list, as aforesaid, the Governor shall appoint members in good standing of the said society without other restrictions.

Each one of the said appointees must be a registered, bona fide, practitioner of dentistry in good standing, and shall have practiced dentistry under the laws of this State for a period of not less than ten years. No member of a dental college faculty shall be eligible to appointment upon the State Board of Dental Examiners, but this shall not apply to membership in the dental council. The Governor shall fill vacancies by death or otherwise for the unexpired term of said examiners, from the list of names submitted to him by the Dental Society, and shall remove any member of said board for continued neglect of the duties required by this act, or on recommendation of the said Dental Society for incompetency, unprofessional or dishonorable conduct. The Governor shall, in his first appointments, designate the number of years for which each appointee shall serve. The appointment of successors to those members whose term of office will expire on the first day of September of each year, shall be made by the Governor during the month of August of such year, upon the same conditions and requirements as hereinbefore specified with reference to the appointment of the examining board.

Section 6. Said Board shall be known by the name and style of Board of Dental Examiners of the State of Pennsylvania. Every person who shall be appointed to serve on said Board shall receive a certificate of appointment from the Secretary of the Commonwealth. Said Board shall be authorized to take testimony concerning all matters within its jurisdiction, and the presiding officer, for the time being of the said Board or of any of the committees thereof, may issue subpoenas and administer oaths to witnesses. Said Board of Examiners shall make and adopt all necessary rules and regulations and by-laws, not inconsistent with the Constitution and laws of this State or of the United States, whereby to perform the duties and transact the business required under the provisions of this act. Said rules, regulations and by-laws to be subject to the approval of the Dental Council of Pennsylvania established by this act.

Section 7. From the fees provided by this act, the Examining Board may pay all expenses incurred by its provision in the conduct of its business as a Board, after having apportioned and paid to the Dental Coun-

Qualifications of members.

Who shall not be eligible.

Vacancies.

Removal of members by Governor.

Governor shall designate term of appointees.

Appointment of successors.

Name of Board.

Authority of Board.

May adopt rules, by-laws, etc.

Subject to approval of Dental College.

Expenses to be paid from fees.

**Surplus.**

cil a sum, not exceeding one hundred dollars (\$100), to liquidate the expenses incident to the conduct of the business of said Council; and if any surplus above said expenses shall remain at the end of any year, it shall be apportioned among said examiners, pro rata, according to the number of candidates examined by each, not to exceed five hundred dollars (\$500) to each examiner, and any balance over and above this amount shall be paid into the treasury of the Commonwealth.

**First meeting of Examining Board.**

Section 8. The first meeting of the said Examining Board shall be held on the first day of October in one thousand eight hundred and ninety-seven, suitable notice in the usual form being given with the notice of their appointment by the Secretary of the Commonwealth to each of the members thereof, specifying the time and place of meeting. At the first meeting of the said board an organization shall be effected by the election, from their own membership of a president and secretary. For the purpose of examining applicants for license, the State Board of Dental Examiners shall hold two or more stated or special meetings each year, due notice of which shall be made public at such time and place as they may determine. At such stated or special meetings a majority of the members of the Board shall constitute a quorum thereof, but the examinations may be conducted by a committee of one or more of the examiners duly authorized by said board.

**Organization and officers.****Meetings for examinations of applicants for license.****Quorum.****Examination.****Exceptions.****Subjects for examination.**

Section 9. Subjects for examination: All candidates for license to practice dentistry in the State of Pennsylvania (with the exception of those otherwise provided for in section twelfth of this act), shall be required to pass an examination by the State Board of Dental Examiners upon the following subjects:

1. General anatomy and physiology.
2. Special dental anatomy.
3. Dental histology.
4. Dental physiology.
5. Chemistry and metallurgy.
6. Materia medica.
7. Dental pathology, bacteriology and therapeutics.
8. Anesthesia.
9. Oral surgery.
10. Principles and practice of operative and prosthetic dentistry.

Each applicant shall also furnish to the Board of Dental Examiners satisfactory evidence of his or her proficiency in the manipulative procedures of dentistry, either by producing an example of his or her work, duly attested by the demonstrator in charge of the clinic of the college issuing his or her diploma, or by a practical demonstration of his or her skill in the presence of the examining members of said boards.

Requirements  
from applicants.

Section 10. Said examinations shall be conducted in writing and shall embrace all of the subjects named in section nine of this act. After each examination the board having charge thereof shall, without unnecessary delay, act upon the same. An official report of such action, signed by the president and secretary and each acting member of the said Board of Dental Examiners, stating the examination average of each candidate in each branch, the general average and the results of the examination, whether successful or unsuccessful, shall be transmitted to the Dental Council. The said report shall embrace all the examination papers, questions and answers thereto. All such examination papers shall be filed in the office of the Secretary of Internal Affairs and kept for reference and inspection for a period of not less than five years.

Examinations  
shall be in writ-  
ing.

Board shall act at  
once.

And report to  
Dental Council.

Contents of re-  
port.

Shall be filed in  
office of Secretary  
of Internal Af-  
fairs.

Section 11. On receiving from the said Board of Dental Examiners such official report of the examination of any applicant for license, the Dental Council shall issue forthwith to each applicant who shall have been returned as having successfully passed said examination, a license to practice dentistry in the State of Pennsylvania. Every license to practice dentistry, issued pursuant to this act, shall be subscribed by the officers of the Dental Council and by each Dental Examiner who reported the licentiate as having successfully passed said examinations. It shall also have affixed to it by the person authorized to affix the same the seal of this Commonwealth, before said license shall be issued. It shall be recorded in a book to be kept in the office of the Dental Council, and the number of the book and page therein containing said recorded copy shall be noted upon the face of said license. Said records shall be open to public inspection, under the proper restrictions as to their safe keeping, and in all legal proceedings such records and copies or exemplifications thereof, certified by the

Board of Dental  
Examiners shall  
issue license.

Who shall sign li-  
cense.

Seal of the State  
to be affixed.

And shall be re-  
corded.

Record shall be  
open to inspec-  
tion.



Certified copies  
shall be evidence.

secretary of the Dental Council, under seal, shall have the same weights as evidence that is given to records and certified copies of deeds for the conveyance of land.

Fee and applica-  
tion.

Age, character  
and education of  
applicant.

Diploma.

Requirement for  
examination after  
October 1, 1897.

Order for examin-  
ation.

Failure to pass  
examination.

Examination of  
applicants li-  
censed in other  
states.

Section 12. On and after the first day of October, one thousand eight hundred and ninety-seven, any person not heretofore authorized to practice dentistry in this State, and desiring to enter upon such practice, may deliver to the secretary of the Dental Council, upon the payment of a fee of fifteen (\$15.00) dollars, a written application for license, together with satisfactory proof that the applicant is not less than twenty-one years of age, is of good moral character, has obtained a competent common school education, and has received a diploma conferring the degree of doctor of dental surgery, or other recognized dental degree, from a reputable institution of the United States, recognized as of good repute by the Board of Dental Examiners of this State, and legally competent to confer the same, or a diploma, or a license conferring the full right to practice the branches of dentistry in some foreign country. Applicants who have received their degree in dentistry after the first day of October, one thousand eight hundred and ninety-seven, must have pursued the study of dentistry for at least three years, including three regular courses of lectures each extending over a period of at least six months in separate years, in some legally incorporated dental college or colleges, prior to the granting of said diploma or foreign license. Such proof shall be made, if required, upon affidavit. Upon making such payment and proof the Dental Council, if satisfied with the same, shall issue to such applicant an order for examination before the State Board of Dental Examiners. In case of failure at any such examination, the candidate, after the expiration of six months and within two years, shall have the privilege of a second examination by the said board, without the payment of an additional fee; but for any other subsequent examinations he shall pay the usual fees prescribed in this act. And it is further provided that applicants examined and licensed by the State Board of Dental Examiners, or State Board of Health of other states, on payment of a fee of ten (\$10) dollars to the secretary of the Dental Council, and on filing in the office of the Dental Council a copy of said license, certified with the affi

davit of the president and secretary of such board, showing that the standard of requirements adopted by the said State Board of Dental Examiners or State Board of Health is substantially the same as provided by sections nine and twelve of this act, shall, without further examinations, receive a license conferring on the holder thereof all the rights and privileges provided by sections 13 and 14 of this act.

Section 13. From and after the first day of October, one thousand eight hundred and ninety-seven, it shall not be lawful for any person in the State of Pennsylvania to enter upon the practice of dentistry, unless he or she has complied with the provisions of this act, and has exhibited to the prothonotary of the court of common pleas of the county in which he or she desires to practice dentistry, a license, duly granted to him or her as hereinbefore provided; whereupon he or she shall be entitled, upon the payment of one dollar, to be duly registered in the office of the prothonotary of the court of common pleas in the said county; and any person violating any of the provisions of this act shall be guilty of a misdemeanor; and upon conviction thereof in the court of quarter sessions of the county wherein the offense has been committed, shall pay a fine of not less than fifty (\$50.00) dollars nor more than two hundred (\$200.00) dollars for each offense.

Section 14. Nothing in this act shall be construed to interfere with or punish physicians or surgeons, in the regular practice of their profession, from extracting teeth for the relief of pain, or making applications for such purpose, or shall interfere with or prevent bona fide students of dentistry, in the regular course of their instruction from operating upon patients at clinics, or under the immediate supervision and in the presence of their preceptor, who is in lawful practice, provided that no fee, salary or other reward for such operations shall be received, either directly or indirectly under any circumstances by any student of dentistry. And nothing in this act shall be construed to prohibit the practice of dentistry within this Commonwealth by any practitioner who shall have been duly registered in accordance with the laws of this Commonwealth existing prior to the passage of this act, and one such registry under this act shall be sufficient warrant to practice dentistry in any county in this Commonwealth.

Practice after  
October 1, 1897.

Shall exhibit his  
license to the pro-  
thonotary.

Fee.

Shall be regis-  
tered.

Violation of act  
declared a mis-  
demeanor.

Penalty.

Who are exempt  
from provisions of  
act.

Proviso.

Registration prior  
to passage of this  
act.

One registry suffi-  
cient.



Disbursements of money.

Section 15. All disbursements of money, provided for above in this act, shall be made by the secretary of the Dental Council upon the instructions of the Dental Council, who shall give all such instructions by resolutions in such case adopted by a quorum, as defined in section two of this act.

Repeal of certain acts.

Section 16. The acts of April seventeenth, one thousand eight hundred and seventy-six, June twentieth, one thousand eight hundred and eighty-three, and of June tenth, one thousand eight hundred and ninety-three, regulating the practice of dentistry in this State, and all other acts or parts of acts of Assembly inconsistent herewith, shall be and are hereby repealed.

Approved—The 9th day of July, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 170.

FRANK REEDER,  
Secretary of the Commonwealth.

### AN ACT

To provide that one burial permit shall be sufficient for interment in any cemetery located within the county in which said burial permit is issued.

Authority of burial permits.

Section 1. Be it enacted, &c., That a burial permit, issued in the district wherein the deceased person expired, shall be sufficient authority for interment in any cemetery or burial ground within the corporate limits of the county wherein the said district is located: Provided, That when a cemetery located within the corporate limits of two or more municipalities, or is embraced within two or more counties, a burial permit issued by the proper authority in any one of said municipalities or counties, shall be sufficient warrant for the interment of the body mentioned in said permit in any part of said cemetery.

Proviso.

Repeal.

Section 2. All acts or parts of acts inconsistent herewith are hereby repealed.

Approved—The 9th day of July, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 175.

FRANK REEDER,  
Secretary of the Commonwealth.

## AN ACT

Making valid the diplomas of physicians, issued by any reputable college or university in another state or foreign country, which have been improperly registered under the act of Assembly approved June eighth, Anno Domini one thousand eight hundred and eighty-one, and with the same effect as if said diplomas had been legally registered under the provisions of said act.

Section 1. Be it enacted, &c., That any person heretofore having had a medical diploma issued to him by any reputable college or university in another state or foreign country, authorized by law to grant diplomas and confer degrees, and such diploma having been improperly registered under the provisions of the act of Assembly approved June eighth, Anno Domini one thousand eight hundred and eighty-one, entitled "An act to provide for the registration of all practitioners of medicine and surgery," the diploma of such person be and is hereby made valid for all purposes, with the same effect as if the registry of the same had been in the form and under the requirements of said act, and the practice of medicine, or any of such improperly or illegally registered diploma shall, from the date of such registry, be and the same is hereby made lawful and with the same effect as if his said diploma had been properly and legally registered under the provisions of said act; Provided, Said physician shall appear before the proper board of examiners at the next meeting after the passage of this act and shall properly qualify under existing laws.

Diplomas issued by other States or foreign country.

Improperly registered under act of June 8, 1881.

Made valid for all purposes.

Proviso.

Section 2. All laws or parts of laws inconsistent herewith are hereby repealed.

Approved—The 9th day of July, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 176.

FRANK REEDER,  
Secretary of the Commonwealth.

## AN ACT

To amend the fourth section of an act, entitled "An act to protect the people of the Commonwealth against incompetent practitioners of medicine, surgery and obstetrics," approved the twenty-fourth day of March, one thousand eight hundred and seventy-seven, so as to require a license to be taken out by transient practitioners, who practice medicine gratuitously or so advertise, as well as those who practice for a valuable consideration.

Section 1. Be it enacted, &c., That section four of an act, entitled "An act to protect the people of the Commonwealth against incompetent practitioners of medicine, surgery and obstetrics," approved the twenty-fourth day of March, one thousand eight hundred and seventy-seven, which reads as follows:

Section 4, act of March 24, 1877, cited for amendment.

"Section 4. Any person who shall attempt to practice medicine or surgery for a valuable consideration, by opening a transient office within this Commonwealth, or who shall, by handbills, or other form of written or printed advertisement, assign such transient office or other place to persons seeking medicine or surgical advice or prescription, or who shall itinerate from place to place, or from house to house, and shall propose to cure any person sick or afflicted by the use of any medicine, means or agency whatsoever for a valuable consideration, shall, before being allowed to practice in this manner appear before the clerk of the court of quarter sessions of the county wherein such person desires to practice, and shall furnish satisfactory evidence to such clerk that the provisions of this act have been complied with, and shall, in addition, take out a license for one year and pay into the county treasury for the use of such county the sum of fifty dollars therefor; whereupon it shall be the duty of such clerk to issue to such applicant a proper certificate of his license on payment of the fee of five dollars for his services," be and the same is hereby amended so as to read as follows:

Transit practice regulated.

Section 4. Any person who shall attempt to practice medicine or surgery, either for a valuable consideration or without any charge or remuneration therefor, by opening a transient office within this Commonwealth, or who shall, by handbill or other form of written or printed advertisement, assign such transient office or other place to persons seeking medicine or surgical advice or prescription, or who shall itinerate

from place to place or from house to house, and shall propose to cure any person sick or afflicted by the use of any medicine, means or agency, whatsoever, either for a valuable consideration or without any charge or remuneration therefor shall, before being allowed to practice in this manner, appear before the clerk of the court of quarter sessions of the county wherein such person desires to practice, and shall furnish satisfactory evidence to such clerk that the provisions of this act have been complied with, and shall, in addition, take out a license for each day and pay into the county treasury for the use of such county the sum of ten dollars therefor; whereupon, it shall be the duty of such clerk to issue to such applicant a proper certificate of license on payment of the fee of five dollars for his services.

Must take out license.

And pay fee of ten dollars.

Section 2. All acts or parts of acts inconsistent herewith are hereby repealed.

Repeal.

Approved—The 12th day of July, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 203.

FRANK REEDER,  
Secretary of the Commonwealth.

### AN ACT

To amend section one of an act approved the third day of June, Anno Domini one thousand eight hundred and eighty-five, entitled "An act to amend an act, entitled 'An act to provide for the better security of life and limb in cases of fire in hotels and other buildings,'" approved the eleventh day of June, Anno Domini one thousand eight hundred and seventy-nine, extending the provisions thereof to buildings used in whole or in part for offices not of fire proof construction.

Section 1. Be it enacted, &c., That section one of said act approved the third day of June, Anno Domini one thousand eight hundred and eighty-five, which reads as follows: "That all the following described buildings within this Commonwealth, to wit: Every building used as a seminary, college, academy, hospital, asylum or hotel for the accommodation of the public, every storehouse, factory, manufactory, or workshop of any kind, in which employes or operators are usually employed at work in the third or any

Section 1, act June 3, 1885, cited for amendment.

higher story, every tenement house or building in which rooms or floors are usually let to lodgers or families, every public hall or place of amusement, every parochial or public school building, when any of such buildings are three or more stories in height, shall be provided with a permanent, safe, external means of escape therefrom, in case of fire, independent of all internal stairways; the number and location of such escapes to be governed by the size of the building, and the number of its inmates, and arranged in such a way as to make them readily accessible, safe and adequate for the escape of said inmates. Such escapes to consist of outside, open, iron stairways, of not more than forty-five degrees slant, with steps not less than six inches in width and twenty-four inches in length. And all of said buildings capable of accommodating from one hundred to five hundred or more persons as operatives, guests or inmates, shall be provided with two such stairways or more than two stairways, if such be necessary to secure the speedy and safe escape of such inmates, in case the internal stairways are cut off by fire or smoke. And it shall be the duty of the owner or owners in fee or for life, of every such building, and of the trustee or trustees of every estate, association, society, college, seminary, academy, hospital or asylum, owning or using any such building, and of the board of education or board of school directors having charge of any such school building, to provide and cause to be securely affixed outside of every such building such permanent external unenclosed fire escape: Provided, That nothing herein contained shall prohibit any person whose duty it is under this act to erect fire escapes, from selecting and erecting any other and different device, design or instrument, being a permanent, safe, external means of escape, subject to the inspection and approval of the constituted authorities for that purpose," be amended so as to read as follows:

Every public building to be provided with fire escapes.

Section 1. That all the following described buildings within this Commonwealth, to wit: Every building used as a seminary, college, academy, hospital, asylum, or hotel for the accommodation of the public, every storehouse, factory, manufactory or workshop of any kind in which employes or operatives are usually employed at work in the third or any higher story, every

tenement house or other building in which rooms or floors are usually let to lodgers or families, every public hall or place of amusement, every parochial or public school building, and every building used in whole or in part for offices, when any of such buildings are three or more stories in height, except buildings used in whole or in part for offices which are of fire proof construction, shall be provided with a permanent, safe, external means of escape therefrom in case of fire, independent of all internal stairways; the number and location of such escapes to be governed by the size of the building and the number of its inmates, and arranged in such a way as to make them readily accessible, safe and adequate for the escape of said inmates. Such escapes to consist of outside, open iron stairway of not more than forty-five degrees slant, with steps not less than six inches in width and twenty-four inches in length. And all of said buildings, capable of accommodating from one hundred to five hundred or more persons as operatives, guests or inmates, shall be provided with two such stairways, and more than two stairways if such be necessary to secure the speedy and safe escape of said inmates in case the internal stairways are cut off by fire or smoke. And it shall be the duty of the owner or owners in fee for life, of every such building, and of the trustee or trustees of every estate, association, society, college, seminary, academy, hospital or asylum, owning or using any such building, and of the board of education or board of school directors having charge of any such school building, to provide and cause to be securely affixed outside of every such building such permanent external unenclosed fire escape: Provided, That nothing herein contained shall prohibit any person whose duty it is under this act to erect fire escapes from selecting and erecting any other and different device, design or instrument, being a permanent safe external means of escape, subject to the inspection and approval of the constituted authorities for that purpose.

And buildings over three stories high.

Number and location of such escapes.

Description of.

Certain buildings to have two or more stairways.

Duty of owners, trustees, etc., to provide escapes, etc.

Different devices may be used, if approved, etc.

Approved—The 12th day of July, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 204.

FRANK REEDER,

Secretary of the Commonwealth.

## AN ACT

To provide for the investigation of the diseases of domestic animals, and making an appropriation therefor.

\$15,000 appropriated for investigating diseases of domestic animals, etc.

Section 1. Be it enacted, &c., That the sum of fifteen thousand dollars, or so much thereof as may be necessary, is hereby appropriated for the purpose of conducting investigations concerning the causes, nature, treatment and prevention of the diseases of the domestic animals of the Commonwealth of Pennsylvania, with the object of discovering new facts which may be applied advantageously and profitably by the owners of live stock and those engaged in the care, use and rearing of animals.

Investigations to be made by State Live Stock Sanitary Board.

Section 2. That such investigations shall be made by and under the direction of the State Live Stock Sanitary Board, and the said board is hereby authorized to provide for and conduct such work of investigation as may be necessary to discover the most efficient, economical and practical means of avoiding and suppressing the diseases of the domestic animals of this Commonwealth; and such work and the practical deductions therefrom shall, upon the order of the Secretary of Agriculture, be published as a part of the annual report of the Department of Agriculture, or as bulletins from said Department.

Report to be published by Department of Agriculture.

Expenses, how payable.

Section 3. That all necessary expenses under the provisions of this act shall, after approval in writing by the Governor and the Secretary of Agriculture, be paid by the State Treasurer upon the warrant of the Auditor General in the manner now provided by law, upon the presentation of specifically itemized vouchers.

When act shall take effect.

Section 4. That this act shall take effect June first, one thousand eight hundred and ninety-seven.

Approved—The 22d day of July, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 245.

FRANK REEDER,  
Secretary of the Commonwealth.



## AN ACT

To establish an emergency fund to be used, as occasion may require, in the suppression of epidemics, prevention of disease, and protection of human life in times of disease and disaster, and making an appropriation therefor; and directing that the unexpended balance of the sum appropriated by the act approved the third day of July, one thousand eight hundred and ninety-five, shall revert to the State Treasury, and become part of the general fund at the close of the fiscal year ending May thirty-first, one thousand eight hundred and ninety-seven.

Section 1. Be it enacted, &c., That for the two fiscal years beginning June first, one thousand eight hundred and ninety-seven, the sum of fifty thousand dollars be and the same is hereby specifically appropriated and set apart, out of any money in the treasury not otherwise appropriated, for the purpose of creating an emergency fund to be used, as occasion may require, by the State Board of Health in the suppression of epidemics, prevention of diseases, and protection of human life in times of disease and disaster, beyond the relief of individual and organized charity.

\$50,000 appropriated for emergency fund.

The money herein appropriated shall be held in the treasury of the Commonwealth, and whenever the State Board of Health shall determine that the public health is threatened, either by epidemic or as a result of great disaster, to such an extent that the local authorities and individual and organized charity are unable to meet the emergency, they shall pass a resolution to that effect, stating all the facts in the case and the reasons for considering that State aid is needed, and to what amount, and transmit the same to the Governor. If the resolutions and the reasons therein set forth shall meet with the approval of the Governor, Auditor General and State Treasurer, they shall so certify and file the resolutions and certificate of approval in the office of the Auditor General, who shall then draw his warrant upon the State Treasurer for the amount approved by the Governor, Auditor General and State Treasurer, and place the same in the hands of the treasurer of the State Board of Health, to be used for the purpose set forth in the resolution approved as aforesaid, and for no other purpose. If, after the said epidemic shall have been suppressed, or the sickness or danger averted, there shall still be a balance of the amount drawn left in the hands of the

When money is needed, Board of Health shall transmit resolution to Governor, stating amount necessary.

Who shall approve resolution.

Auditor General shall draw warrant.



Balance in hands  
of Board of  
Health shall be  
returned to State  
Treasurer.

Vouchers and  
itemized state-  
ment.

Unexpended bal-  
ances.

treasurer of the State Board of Health, he shall, without delay, return the same to the State Treasurer, and it shall become a part of the said emergency fund. He shall also file with the Auditor General a specifically itemized statement, made under oath, and accompanied by proper vouchers of the expenditures of said moneys as soon as possible. The unexpended balances of the money herein appropriated shall revert to the State Treasury at the close of the two fiscal years. And any unexpended balances of the emergency fund created by the act of July third, one thousand eight hundred and ninety-five, shall also revert to the State Treasury and become a part of the general fund of the Commonwealth at the close of the fiscal year ending May thirty-first, one thousand eight hundred and ninety-seven.

Approved—The 22d day of July, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 249.

FRANK REEDER,

Secretary of the Commonwealth.

### AN ACT

To provide for the current expenses of the State Board of Health and Vital Statistics for the two fiscal years commencing the first day of June, one thousand eight hundred and ninety-seven.

Section 1. Be it enacted, &c., That the following sums, or so much thereof as may be necessary, be and the same are hereby specifically appropriated to defray the expenses of the State Board of Health and Vital Statistics for the two fiscal years commencing the first day of June, one thousand eight hundred and ninety-seven.

\$4,000 for salary  
of secretary and  
executive officer.

For the payment of the salary of the Secretary and Executive Officer for the two years, the sum of four thousand dollars, or so much thereof as may be necessary.

\$8,000 for clerical  
aid, postage,  
traveling expen-  
ses, etc.

For the employment of necessary clerical aid in the office of the Board, postage, telegrams, express charges, rent, incidental office expenses, traveling and other necessary expenses of the members and Secretary of

the Board while engaged in actual duties of the Board, and for sanitary inspections, protections of the water supply, scientific examinations, and analyses, for the two years, the sum of eight thousand dollars, or so much thereof as may be necessary.

The amounts expended from the above appropriation shall be distributed by the said board in accordance with the requirements of the sanitary service of the Commonwealth, and with reference to such emergencies as may arise. Distribution.

Said appropriation to be paid upon the warrant of the Auditor General on settlement made by him and the State Treasurer, upon specifically itemized vouchers certified to by the President and Secretary of said Board; and all moneys appropriated under this act remaining unexpended at the close of the two fiscal years shall revert to the State Treasury. How payable.  
  
Unexpended balances.

Approved—The 22d day of July, A. D. 1897.

DANIEL H. HASTINGS.

The foregoing is a true and correct copy of the act of the General Assembly No. 250.

FRANK REEDER,  
Secretary of the Commonwealth.

## APPENDIX N.

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### ADDITIONS TO LIBRARY.

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#### List of Books Received from November 12, 1896, to November 12, 1897, By Gift or Exchange.

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Report of the State Board of Health of Rhode Island, 1894. Gardner T. Swartz.

Meat and Milk Inspection, Toronto, Canada. Peter A. Bryce.

Report of the Eleventh Annual Meeting of the Association of Health Officers of Ontario, September 14, 1896. P. A. Bryce.

Report of the Secretary of Internal Affairs of Pennsylvania. James W. Latta.

Second Annual Report of the Board of Health of the Province of Quebec, 1896. Elzear Pelletier.

Twenty-ninth Annual Report of the New York Orthopaedic Dispensary and Hospital. Miss E. S. Hamilton.

Maine Registration Report for the Year 1894. A. G. Young.

Annual Report of the Bureau of Health of Pittsburgh. Crosby Gray.

Annual Report of the Department of Public Safety of Pittsburgh, 1895-6. J. A. McLaughlin.

Plumbing Simplified. Wm. Paul Gerhard.

Immigration Service—Annual Report of Commissioner General, 1896. John J. S. Rodgers.

Biennial Report of the Oklahoma Territory Board of Health, 1895-6. C. D. Arnold.

Transactions of the American Institute of Homeopathy, 1896. T. Franklin Smith.

Proceedings of the Philadelphia County Medical Society, Vol. XVII, 1896. John Lindsay.

Transactions of the Medical Society of the State of Pennsylvania, Vol. XVII. Wm. B. Atkinson.

Third Annual Report of the Factory Inspector of Illinois, 1895. Florence Kelley.

Sixteenth Annual Report of the State Board of Health of New York, 1896. Baxter T. Smelzer.

Maps Accompanying Sixteenth Annual Report of the State Board of Health of New York, 1896. Baxter T. Smelzer.

Annual Report of the Health Department of the City of Baltimore, 1896. James F. McShane.

Sanitary Report of the City of Montreal, Canada, 1896. Louis La-berge.

Tenth Annual Report of the Board of Health of New Brunswick, 1896. G. E. Coulthard.

Transactions of Luzerne County Medical Society, 1896. Maris Gibson.

Biennial Report of the State Board of Health of West Virginia, 1895-6. N. D. Baker.

Annual Report of the City of Port Huron, Mich., 1896. H. R. Miller.

Twenty-eighth Registration Report of Michigan, 1894.

Report of the Philadelphia Polyclinic, 1896. Henry Leffmann.

Annual Report of the Supervising Surgeon General of the U. S. Marine Hospital Service, 1896. Walter Wyman.

Report of the State Board of Health of Connecticut, 1896. C. A. Lindsley.

Fifty-first Annual Report of the Village of Oberlin, Ohio, 1897. W. B. Gerrish.

Proceedings of the Seventh Annual Meeting of the State and Local Boards of Health of Ohio, January 21 and 22, 1896. C. O. Probst.

Epidemic Diseases and Their Prevention in the Eastern Suburbs of Sydney, N. S. W. Geo. Lane Mullins, M. A., M. D.

Dairies and the Milk Supplies in New South Wales. Geo. Lane Mullins, M. A., M. D.

The Duties and Responsibilities of Medical Men in New South Wales. Geo. Lane Mullins, M. A., M. D.

New South Wales as a Health Resort for British Consumptives. Geo. Lane Mullins, M. A., M. D.

Notes on Phthisis in New South Wales and Other Australasian Colonies. Geo. Lane Mullins, M. A., M. D.

Cancer in New South Wales. Geo. Lane Mullins, M. A., M. D.

Report of the Jefferson Medical College, Philadelphia, 1896.

Report of the Board of Health of Wilmington, Del., 1896. Chas. H. Ten Weeges.

Report of the Hospital of the Protestant Episcopal Church, of Philadelphia, 1896. John Ashhurst, Jr.

Fourth Annual Report of the Provincial Board of Health of Nova Scotia, 1896. A. P. Reid.

Seventeenth Annual Report of the State Board of Health of South Carolina, 1896. James Evans.

Report of the Health Officer of the District of Columbia. Wm. C. Woodward.

Nineteenth Annual Report of the Health Commissioner of St. Louis, Mo., 1896. M. C. Starkloff.

Twelfth and Thirteenth Annual Reports, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C., 1895-6. D. E. Salmon.

Report of the Health of the City of Birmingham, Ala., 1896. Alfred Hill.

Transactions New York State Medical Association, 1896. E. D. Ferguson.

Sixth Biennial Report of the North Carolina Board of Health, 1895-6. Richard H. Lewis.

Twelfth and Thirteenth Official Reports of the Board of Trustees and Superintendent of the State Hospital for Injured Persons of the Anthracite Coal Regions of Pennsylvania, at Fountain Springs, 1894-6. J. C. Biddle.

Twelfth Annual Report of the State Hospital for the Insane at Warren, 1896. S. W. Waters.

Twelfth Annual Report of the Kansas State Board of Health, 1896. Thos. Kirkpatrick.

Report of the Provincial Board of Health of Ontario, 1896. Peter H. Bryce.

Twenty-ninth Registration Report, Michigan, 1895. Washington Gardner.

Report of the Pennsylvania Hospital, 1897. John T. Lewis, Jr.

Report of the Board of Health of Erie, 1897. J. W. Wright.

Fourth and Fifth Annual Reports of the State Board of Health of Washington, 1895-6. Elmer E. Heg.

Registration Report of Ontario, 1895. Peter H. Bryce.

Medical Communications of the Massachusetts Medical Society, Vol. XVII, 1897. Francis W. Goass.

Year Book of the Department of Agriculture, 1895. Chas. W. Dabney, Jr.

Pennsylvania Report of the Department of Agriculture, 1896. Thomas J. Edge.

Report of Friends' Asylum for the Insane, at Frankford, Philadelphia, 1897. Thomas Scattergood.

Proceedings of the Public Health Conference of Maryland, 1897. John S. Fulton.

Fourth Annual Report of the Factory Inspector of Illinois, 1896. Florence Kelley.

Water Supply and Irrigation Papers of the U. S. Geological Survey, No. 3. Chas. D. Walcott.

Transactions Wisconsin State Medical Society, 1897. C. S. Sheldon.

A Precis of Quarantine Practice at National Quarantine Stations. Walter Wyman.

Ninth Biennial Report of the Board of Health of the State of Delaware, 1895-6. E. B. Frazer.

Year Book of the Department of Agriculture, 1896. Chas. W. Dabney, Jr., Washington.

Report of the Health Officer of the District of Columbia, 1896. Wm. O. Woodward.

Report of the Indiana State Board of Health, 1895-6. J. N. Hurty.

Report of the State Board of Health of Rhode Island, 1895. Gardner T. Swartz.

Pennsylvania Laws, 1897. Hon. Frank Reeder.

Statutes at Large of Pennsylvania. Commissioners.

#### Books Purchased.

A Simple Method of Water Analysis—Thresh. P. B. Blakiston, Son & Company.

Disease and Defective House Sanitation—Corfield. P. B. Blakiston, Son & Company.

The American Year Book of Medicine and Surgery—Gould, 1897. W. B. Sanders.

A System of Medicine—Thomas Clifford Albutt, 2 vols. Vol. I, Fevers; Vol. II, Infective Diseases and Toxicology. The Macmillan Company.

Medical Climatology—Solly. Leo Bros. & Co.

Mortuary Law—Perley. By requisition, Geo. B. Reed, Boston.

A System of Medicine—Thomas Clifford Albutt. Vol. III, Diseases of Obscure Causation, Alimentation and Excretion. The Macmillan Co.

#### List of Journals and Bulletins.

The Journal of the American Public Health Association. Subscription.

The Journal of the American Medical Association, Chicago, Ill. Subscription.

New England Medical Monthly, Danbury, Conn.

The Sanitarian, Brooklyn, N. Y. Subscription.

The Journal of Comparative Medicine and Veterinary Archives, Philadelphia, Pa. Subscription.

Buffalo Medical Journal, Buffalo, N. Y.

Public Health, Philadelphia, Pa. Subscription.

Medical and Surgical Reporter, Philadelphia, Pa.

Experiment Station Record, Washington, D. C.

Pennsylvania State College Bulletin, State College, Pa.

Tennessee State Board of Health Bulletin, Nashville, Tenn.

Official Monthly Report of the Department of Health of Milwaukee, Wis., Milwaukee, Wis.

Report of the State Weather Bureau of Pennsylvania, Philadelphia, Pa.

Iowa State Board of Health Bulletin, Des Moines, Ia.

Monthly Report of the Board of Health of Rochester, N. Y., Rochester, N. Y.

Official Monthly Report of the Bureau of Health of Denver, Col., Denver, Col.

Monthly Report of the Department of Public Health, Buffalo, N. Y.

Weekly Report of the Health Department of New York, New York, N. Y.

Weekly Returns of Births and Deaths in London, Eng., London, Eng.

The Sanitary Inspector. Official Bulletin of the State Board of Health of Maine, Augusta, Me.

Quarterly Returns of Births, Deaths and Marriages in England and Wales, London, Eng.

Lehigh Valley Medical Magazine Easton, Pa.

The Pennsylvania Medical Journal. Pittsburgh, Pa.

APPENDIX O.

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TENTH ANNUAL REPORT  
OF THE  
State Pharmaceutical Examining Board  
OF  
PENNSYLVANIA,  
FOR THE YEAR ENDING JUNE 30, 1897.

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Harrisburg, Pa., May 24, 1898.

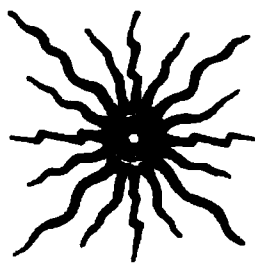
To His Excellency Daniel H. Hastings, Governor:

Sir: In compliance with the provisions of section 4 of the "Act to regulate the practice of pharmacy and sale of poisons and to prevent the adulteration in drugs and medicinal preparations in the State of Pennsylvania," approved May 24, 1887, I have the honor to transmit the Tenth annual report of the Board for the year ending June 30, 1897.

Very respectfully yours,

CHARLES T. GEORGE,  
Secretary.

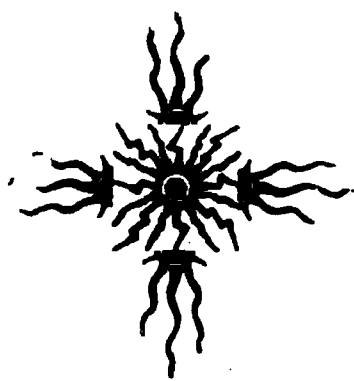




**MEMBERS OF THE BOARD.**

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**LOUIS EMANUEL, President, Pittsburgh, Pa.**  
**CHARLES T. GEORGE, Secretary, Harrisburg, Pa.**  
**HENRY C. PORTER, Treasurer, Towanda, Pa.**  
**EDWARD A. CORNELL, Williamsport, Pa.**  
**FELIX A. BOERICKE, M. D., Philadelphia, Pa.**



## REPORT.

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The Board held four quarterly meetings during the year ending June 30, 1897.

The first meeting was held at Williamsport and Bradford, July the 14th, 1896. One hundred and forty-nine applicants for registration presented themselves for examination, 98 for registered pharmacist's certificates and 51 for qualified assistant's certificates; 22 of the former and 18 of the latter succeeded in passing the examination and were registered.

The next meetings were held in Philadelphia on the 24th of October and at Pittsburgh on the 27th of October, 1896. At these places 312 persons presented themselves for examination, 180 for registered pharmacist's certificates and 132 for qualified assistant's certificates. Of this number, 51 of the former and 71 of the latter class succeeded in passing a satisfactory examination and were accordingly registered.

The third quarterly meeting of the Board for the examination of candidates was held in Philadelphia, January 16, 1897. At this meeting 262 persons applied for examination, 146 for registered pharmacist's certificates and 116 for qualified assistant's certificates; 53 of the first class and 55 of the last named class succeeded in passing a successful examination and were ordered to be registered.

The fourth and last quarterly examination of the Board was held at Pittsburgh, April the 15th, and at Harrisburg, April the 17th, 1897. At these examinations 310 persons presented themselves for examination, 177 for registered pharmacist's certificates and 133 for qualified assistant's certificates. Of this number, 100 of the first named class and 87 of the last named class succeeded in passing a satisfactory examination and were ordered to be registered.

The total number examined during the year was 1,033. Of this number, 457 were registered, 226 as registered pharmacists and 231 as qualified assistants, or less than 50 per cent. of the total number of applicants. The annual report of the treasurer of the Board, Mr. Henry C. Porter, of Towanda, Pa., showing a balance of \$6,176.83 in his hands, is herewith submitted.

Very respectfully yours,

CHARLES T. GEORGE,

Secretary.

### A Suggestion for Necessary Legislation.

In view of the fact that the pharmacy law is entirely in the interest

of the public by placing the sale of medicines and poisons, and the compounding of physicians' prescriptions in the hands of competent and qualified men is not that part of section 6 of the pharmacy law, which reads "nor shall it prevent store-keepers from dealing in and selling the commonly used medicines and poisons" entirely too broad and unjust to the pharmacist? Should there not be some restriction to the sale of medicines and poisons by incompetent persons, not only for the benefit of the pharmacist, whose burdens are increased by virtue of the present law, but for the benefit of the public itself?

The sale of medicines and poisons should be restricted to the sale of the simple household remedies, like paregoric, peppermint, Jamaica ginger, castor oil, sweet oil, Godfrey's cordial, Bateman's drops and so forth, and in the case of poisons, only such poisons should be sold as the well-known insecticits, Paris green, London purple and hellebore, by those so-called store-keepers who, I know, you will recognize as incompetent because not educated to handle with safety dangerous drugs.

An amendment to the pharmacy law should be made authorizing the Board to require the applicants for examination to make oath or affirmation to his application for examination, attesting before a notary public, or justice of the peace or alderman the correctness or truthfulness of the statements made in his application for examination.

It should, likewise, be made a punishable offense to falsely represent another person before the Board, so as to make it impossible for one person who is competent and able to pass the examinations of the Board to falsely represent another person who is ignorant and unable to pass the examination, and who, for a cash consideration, will assume the name of the individual who knows absolutely nothing about pharmacy, and pass the examination for him and thus secure for him a certificate of qualification, thus defeating the very object of the law.

Respectfully submitted to Your Excellency for consideration and favorable recommendation to the Legislature.

CHARLES T. GEORGE,  
Secretary.

## REPORT OF TREASURER.

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**Henry C. Porter, Treasurer, in account with the State Pharmaceutical  
Examining Board of Pennsylvania.**

1896.	Debit.	
July 3, To balance on hand this date, . . . . .	\$1,187 24	
July 7, To cash from C. T. George, Secretary, . . . .	99 00	
July 8, To cash from C. T. George, Secretary, . . . .	354 00	
Aug. 8, To cash from C. T. George, Secretary, . . . .	500 00	
Aug. 25, To cash from C. T. George, Secretary, . . . .	800 00	
Sept. 16, To cash from C. T. George, Secretary, . . . .	900 00	
Oct. 12, To cash from C. T. George, Secretary, . . . .	900 00	
Oct. 23, To cash from C. T. George, Secretary, . . . .	1,599 70	
Oct. 27, To cash from C. T. George, Secretary, . . . .	738 00	
Oct. 27, To cash from C. T. George, Secretary, . . . .	219 00	
Nov. 19, To cash from C. T. George, Secretary, . . . .	900 00	
Dec. 5, To cash from C. T. George, Secretary, . . . .	900 00	
1897.		
Jan. 8, To cash from C. T. George, Secretary, . . . .	364 45	
Jan. 16, To cash from C. T. George, Secretary, . . . .	801 00	
April 15, To cash from C. T. George, Secretary, . . . .	351 00	
April 17, To cash from C. T. George, Secretary, . . . .	591 00	
July 23, To cash from C. T. George, Secretary, . . . .	1,112 95	
	\$12,317 34	
1896.	Credit.	
Oct. 17, By voucher No. 255, . . . . .	\$91 75	
Oct. 15, By voucher No. 256, . . . . .	239 25	
Oct. 15, By voucher No. 257, . . . . .	136 26	
Oct. 15, By voucher No. 258, . . . . .	382 91	
Oct. 15, By voucher No. 259, . . . . .	90 00	
Oct. 15, By voucher No. 260, . . . . .	300 82	
Oct. 23, By voucher No. 261, . . . . .	699 70	
1897.		
Jan. 8, By voucher No. 262, . . . . .	531 75	
Jan. 8, By voucher No. 263, . . . . .	120 40	
Jan. 8, By voucher No. 264, . . . . .	135 00	
Jan. 8, By voucher No. 265, . . . . .	153 05	
Jan. 8, By voucher No. 266, . . . . .	364 45	
Jan. 14, By voucher No. 267, . . . . .	255 00	

Feb. 16, By voucher No. 268, .....	<del>60</del> 50
April 13, By voucher No. 269, .....	158 40
April 13, By voucher No. 270, .....	487 99
April 13, By voucher No. 271, .....	85 00
April 13, By voucher No. 272, .....	183 00
April 13, By voucher No. 273, .....	8 00
June 18, By voucher No. 274, .....	18 75
July 24, By voucher No. 275, .....	238 35
July 24, By voucher No. 276, .....	449 93
July 24, By voucher No. 277, .....	137 50
July 24, By voucher No. 278, .....	111 80
July 24, By voucher No. 279, .....	700 95
July 24, By cash on hand to balance, .....	6,176 83
	<hr/> \$12,317 34 <hr/>

Condensed Itemized Statement of Expenditures of the State Pharmaceutical Examining Board of Pennsylvania, from July 3, 1896, to July 24, 1897, inclusive.

Lawyers' fees, witnesses, court costs and expenses, .....	\$655 05
Detective fees, .....	25 00
Printing, .....	255 15
Postage, telegraph and telephone, .....	133 35
Express, .....	11 55
Janitors and help, .....	125 00
Premium, treasurer's bond, .....	18 75
Specimens, .....	60 00
Secretary's salary, railroad, hotel and incidental expenses, .....	3,004 66
Louis Emanuel, 105½ days' services, .....	527 00
Charles T. George, 66 days' services, .....	330 00
E. A. Cornell, 58 days' services, .....	290 00
F. A. Boricke, 73 days' services, .....	365 00
H. C. Porter, 68 days' services, .....	340 00
	<hr/> \$6,140 51 <hr/>

Respectfully submitted,

HENRY C. PORTER,

Treasurer.

## REGISTERED PHARMACISTS.

---

Alexander, Chas. E., ..... York, ..... York county.  
 Altenburger, Ulrich, ..... 172 Ohio street, ..... Allegheny.  
 Anderson, Geo. Chas., ..... 1744 N. 21st, ..... Philadelphia.  
 Anthony, Will R., ..... Glen Lyon, ..... Luzerne county.  
 Arndt, Jesse E., ..... Nanticoke, ..... Luzerne county.  
 Auker, Edgar T., ..... Mifflintown, ..... Juniata county.  
 Baer, Hermanus L., ..... Somerset, ..... Somerset county.  
 Baker, Henry T., ..... Warren, ..... Warren county.  
 Baker, Newton C., ..... Sunbury, ..... Northumberland county.  
 Barndollar, Wm. L., ..... 196 Beaver street, ..... Allegheny.  
 Barr, David F., ..... 1801 Master street, ..... Philadelphia.  
 Bates, John Philip, ..... Mansfield, ..... Tioga county.  
 Becker, Irwin A., ..... 507 N. 7th street, ..... Philadelphia.  
 Beckett, Josiah L., ..... Lansdowne, ..... Delaware county.  
 Boorse, Henry A., ..... 1340 De Kalb, ..... Norristown.  
 Bowers, Chas. A., ..... Prospect, ..... Butler county.  
 Boyer, J. Clinton, ..... 736 S. 3d, ..... Philadelphia.  
 Brady, John D., ..... 11 Boggs avenue, ..... Pittsburgh.  
 Buehler, David A., ..... 1711 Summer, ..... Philadelphia.  
 Burford, Ethan Allen, .... 106 Burton avenue, ..... Washington.  
 Burke, Sylvester L., ..... Lowellville, ..... Ohio.  
 Campbell, Chas. C., ..... 175 Lacock, ..... Allegheny.  
 Carstens, Louis P., ..... 100 Spring Garden, ..... Philadelphia.  
 Cassel, James W., ..... 1645 N. Broad, ..... Philadelphia.  
 Castrique, Chas., ..... Aliquippa, ..... Beaver county.  
 Chandler, Chas F., ..... 1806 N. 11th street, ..... Philadelphia.  
 Clapp, Samuel C., Jr., .... Milton, ..... Northumberland county.  
 Clark, Edward B., ..... 542 N. 13th, ..... Reading.  
 Claudy, R. Bleau, ..... Newville, ..... Cumberland county.  
 Clemmer, Jonas G., ..... 7th and Germantown ave., Philadelphia.  
 Cloud, Norman H., ..... 100 W. Susquehanna ave., Philadelphia.  
 Codori, Simon J., Jr., .... Gettysburg, ..... Adams county.  
 Cohen, Leiser P., ..... 211 S. 13th street, ..... Philadelphia.  
 Collmann, Adolph E. R.,... 257 Scott street, ..... Wilkes-Barre.  
 Conard, Norman S., ..... 13th and Jefferson, ..... Philadelphia.  
 Cook, Wm. S. G., ..... Coatesville, ..... Chester county.  
 Cooper, Frank A., ..... Scottdale, ..... Westmoreland county.  
 Cooper, Morris, ..... 2d and York streets, ..... Camden, N. J.,  
 Craig, Ben. C., ..... Brookville, ..... Jefferson county.  
 Culbert, John Speer, ..... 312 Ann street, ..... Homestead.  
 Cunningham, Wm. J.,..... 1410 7th avenue, ..... Beaver Falls.  
 Dannenhauer, Frederick,... 1301 Germantown avenue, Philadelphia.  
 Davies, Wm. Richard, .... Edwardsdale, ..... Luzerne county.  
 Davis, Daniel Webster,... Conemaugh, ..... Cambria county.  
 Davis, Wm. D., ..... Coal Dale, ..... Schuylkill county.  
 Dawes, Wm. R., ..... 16 Throop street, ..... Scranton.



Deardorff, Calvin A.,	805 9th street,	Washington, D. C.
Delbert, Wm. Henry,	7th and Oxford,	Philadelphia.
Delfin, Frank K.,	2220 5th avenue,	Pittsburgh.
Dietrich, James,	Portland,	Northampton county.
Dixon, Fred'k H.,	115 Penn avenue,	Warren.
Dostrow, Alex. J.,	1500 N. 5th street,	Philadelphia.
Dreiffoos, Benj. F.,	2001 N. 4th street,	Philadelphia.
Dunham, M. M.,	Warren,	Warren county.
Eagon, Elmer E.,	East Liverpool,	Ohio.
Eason, David C.,	Hastings,	Cambria county.
Ehman, Joseph W.,	706 Packer street,	Williamsport.
Elliott, James T.,	Gettysburg,	Adams county.
Emery, Ernest H.,	Greenville,	Mercer county.
Emery, Robert G.,	Grove City,	Mercer county.
Erchbach, Clarence D.,	2328 E. Norris,	Philadelphia.
Erskine, Wm. S.,	28 Anderson,	Philadelphia.
Evans, John C.,	Scottdale,	Westmoreland county.
Farrow, Chas. T.,	1226 S. 27th street,	Philadelphia.
Feinberg, S. E., M. D.,	Scranton,	Lackawanna county.
Felker, Harry,	South Bethlehem,	Lehigh county.
Few, Colin S.,	Middletown,	Dauphin county.
Finney, John J.,	3124 Cumberland,	Philadelphia.
Fisher, Chas. M.,	Allegheny Hospital,	Allegheny.
Flenniken, J. Byron,	925 Carson,	Pittsburgh.
Fluck, Franklin W.,	24th and Montgomery ave.	Philadelphia.
Foote, John A.,	Archbald,	Lackawanna county.
Forst, Wm. H.,	1601 Carson street,	Pittsburgh.
Frank, Louis,	South and Lincoln streets,	Wilkes-Barre.
Fraunfelder, R. D.,	2262 N. 7th street,	Philadelphia.
Freeman, John W.,	Derry,	Westmoreland county.
Frey, John J.,	Vanderbilt,	Fayette county.
Freidman, Hyman Wm.,	3d and Monroe streets,	Philadelphia.
Gabriel, Robert R.,	2567 E. Norris,	Philadelphia.
Geuther, Fred'k E.,	2441 N. 2d street,	Philadelphia.
Gillespie, Wm. Alex.,	1836 Tasker street,	Philadelphia.
Good, Robert F.,	320 N. 8th street,	Allentown.
Goodlin, Elmer E.,	Saltsburg,	Indiana county.
Green, Howard M.,	721 Centre street,	Williamsport.
Gressley, Wm. R.,	30 N. Beaver street,	York.
Groff, Harry M.,	1700 Mt. Vernon,	Philadelphia.
Gross, Ernest A.,	Wyoming,	Luzerne county.
Halg, Chas. R., Jr.,	1901 Master street,	Philadelphia.
Hall, Robert C.,	Franklin,	Venango county.
Hanna, Francis H.,	Springdale,	Allegheny county.
Hansmann, Geo.,	2076 E. Dauphin,	Philadelphia.
Harbaugh, Geo. E.,	Waynesboro,	Franklin county.
Harry, H. Maxwell,	Conshohocken,	Montgomery county.
Hart, DeForest,	Bradford,	McKean county.
Hart, Edward A.,	400 Rebecca street,	Allegheny.
Haymaker, Milo M.,	65 Rebecca street,	Allegheny.
Heim, Christian, Jr.,	898 N. 44th street,	Philadelphia.
Hertzfel, Alfred H.,	316 2d street,	Warren.
Herzog, Albert,	3d and Penn streets,	Chester.
Hetrick, Annie L.,	Wellsville,	York county.

Heymann, Alfred, .....	1204 S. 8th, .....	Philadelphia.
Heysham, Horace B., .....	225 E. Jacoby, .....	Norristown.
Hippler, Harry R., .....	26 Meehan avenue, .....	Germantown.
Hirth, Walter J., .....	Homestead, .....	Allegheny county.
Hoechstetter, Hugo, .....	330 4th avenue, .....	Pittsburgh.
Holliday, John Thos., .....	2314 S. 12th street, .....	Philadelphia.
Hornstrom, Wm., .....	737 5th street, .....	Warren.
Howard, John E., .....	1411 Market street, .....	Harrisburg.
Howell, Harry F., .....	1421 Arch street, .....	Philadelphia.
Hyde, John W., Jr., .....	5713 Rural avenue, .....	Pittsburgh.
Ink, Chas. Thos., .....	303 8th avenue, .....	Homestead.
Isenberg, Chas., .....	7th and Thompson, .....	Philadelphia.
Jacoby, Chas. N., .....	607 N. 2d street, .....	Philadelphia.
James, Benj. F., .....	Ebensburg, .....	Cambridge county.
Janda, Thos. J., .....	7 Main street, .....	Allegheny.
Jones, Frederic R., .....	Mt. Jewett, .....	McKean county.
Johns, Frank J., .....	1010 Cherry street, .....	Philadelphia.
Johnson, Albert B., .....	1103 Ridge avenue, .....	Philadelphia.
Johnston, Edward J., .....	2401 Penn avenue, .....	Pittsburgh.
Kaufman, Reuben M., .....	29th and Jefferson, .....	Philadelphia.
Kealy, John J., .....	117 Mulberry street, .....	Scranton.
Kelly, Francis P., .....	Carbondale, .....	Lackawanna county.
Kennedy, Newton, .....	1421 6th avenue, .....	Beaver Falls.
Kessler, Lawrence A., ....	2400 Spring Garden, .....	Philadelphia.
Kirlin, Chas. C. H., .....	Shenandoah, .....	Schuylkill county.
Kline, Alvin B., .....	64 Chestnut, .....	Allegheny.
Kline, Harry H., .....	600 Centre avenue, .....	Reading.
Krumrine, Sidney, .....	Bellefonte, .....	Centre county.
Kunkle, Timothy O., .....	Peale, .....	Clearfield county.
Kunkle, Willis Geo., .....	125 N. 10th street, .....	Philadelphia.
Leech, David M., .....	1700 Wharton street, .....	Philadelphia.
Levan, Walter, .....	Gordon, .....	Schuylkill county.
Lewis, Daniel W., .....	501 E. Girard avenue, ....	Philadelphia.
Lewis, Howard H., .....	7943 Frankford avenue,...	Philadelphia.
Life, J. C., .....	1123 Spruce street, .....	Philadelphia.
Light, James R., .....	Lebanon, .....	Lebanon county.
Lloyd, Wm. E. Jr., M. D., ..	Olyphant, .....	Lackawanna county.
Luburg, Leon F., .....	7th and Arch streets,....	Philadelphia.
Lyman, David C., .....	21st and Norris, .....	Philadelphia.
MacAdams, Wm. J., .....	2200 5th avenue, .....	Pittsburgh.
MacDonald, Fred T., .....	Kennett Square, .....	Chester county.
Matchett, C. R., .....	Beaver, .....	Beaver county.
Matuson, Harry, .....	1060 N. 2d street, .....	Philadelphia.
Mayo, Fred. H., .....	31 McClure avenue, .....	Allegheny.
McCleary, Harry W., .....	1124 Snyder avenue, .....	Philadelphia.
McConomy, Paul L., .....	813 N. 21st street, .....	Philadelphia.
McDonald, David, .....	1719 5th avenue, .....	Pittsburgh.
McFadden, Thos. F. J., ....	34th and Pine, .....	Philadelphia.
McGehee, Hanford B., ....	4099 Lancaster avenue,....	Philadelphia.
McGrath, Joseph S., .....	29 Gibbon street, .....	Pittsburgh.
McHenry, Walter G., .....	2426 Adams, .....	Philadelphia.
McLure, Bert G., .....	701 5th avenue, .....	McKeesport.
McMillan, Edwin H., .....	Braddock, .....	Allegheny county.
McMurray, Chas. F., .....	West Penn Hospital, ....	Pittsburgh.

Meister, Samuel E., ..... 143 S. Duke street, ..... Lancaster.  
 Metz, Abram L., ..... 15th and Race streets, .... Philadelphia.  
 Metzler, Claude D., ..... 124 W. Thompson street,.. Philadelphia.  
 Meyers, Kirby C., ..... Beaver Falls, ..... Beaver county.  
 Minnick, Geo., Jr., ..... 80 Monterey street, ..... Allegheny.  
 Montgomery, John C., .... Chambersburg, ..... Franklin county.  
 Morgan, Frank W., ..... 830 Scott street, ..... Philadelphia.  
 Morris, David Henry, ..... 686 Preble avenue, ..... Allegheny.  
 Mosebach, F. A., ..... 822 W. Lehigh avenue,.... Philadelphia.  
 Nixon, Robert B., Jr., .... Haddonfield, ..... New Jersey.  
 Oglevee, Wm. H., ..... 323 Webster avenue, ..... Pittsburgh.  
 Parse, Andrew C., ..... 1252 S. 13th street, ..... Philadelphia.  
 Patrick, Elmer A., ..... 918 Main street, ..... Sharpsburg.  
 Pauly, Joseph C., ..... 104 Gist street, ..... Pittsburgh.  
 Pearce, Samuel R., ..... Manasquan, ..... New Jersey.  
 Pilgrim, John W., ..... 19th and Diamond, ..... Philadelphia.  
 Post, Edward M., ..... 9th and Morton avenue,.. Chester.  
 Quick, Wm. M., ..... New Castle, ..... Lawrence county.  
 Reese, John B., ..... Park Place, ..... Schuylkill county.  
 Reeve, James W., ..... 1755 N. 13th street, ..... Philadelphia.  
 Richards, Miles, ..... McKeesport, ..... Allegheny county.  
 Richart, Frank E., ..... New Albany, ..... Bradford county.  
 Ricker, Wm. H., ..... 628 S. 16th street, ..... Philadelphia.  
 Ringer, Chas. E., ..... 4730 Liberty avenue, ..... Pittsburgh.  
 Ringer, Louis J., ..... 894 N. 6th street, ..... Philadelphia.  
 Ritter, Wm. J., ..... 1037 Girard avenue, ..... Philadelphia.  
 Roberts, Joseph V. C.,.... 4128 Market street, ..... Philadelphia.  
 Rodemoyer, Wm. E., ..... Stoneboro, ..... Mercer county.  
 Rogers, Geo. R., ..... Scranton, ..... Lackawanna county.  
 Rolland, Geo. H., ..... 340 McKean street, ..... Philadelphia.  
 Rovno, Pinkas, ..... 724 S. 3d street, ..... Philadelphia.  
 Rowse, Edwin F., ..... Homestead, ..... Allegheny county.  
 Ruff, Lloyd H., ..... Ruff's Dale, ..... Westmoreland county.  
 Sallada, Hunter, ..... Ashland, ..... Schuylkill county.  
 Sandies, Van Amburg, .... 2328 8th avenue, ..... Beaver Falls.  
 Sausser, Howard E., ..... 539 N. 11th street, ..... Reading.  
 Schad, Harry J. G., ..... Tamaqua, ..... Schuylkill county.  
 Schaefer, Geo., ..... Jersey Shore, ..... Lycoming county.  
 Schaeffer, Otis O., ..... Middletown, ..... Dauphin county.  
 Schafer, Chas. A., ..... 4300 Butler street, ..... Pittsburgh.  
 Schilling, Chas. A., ..... Smithfield and Liberty, .. Pittsburgh.  
 Schmeig, Joseph A., ..... 2900 Germantown avenue, Philadelphia.  
 Shaff, Oliver B., ..... Irwin, ..... Westmoreland county.  
 Sharp, Warren R., ..... West Chester, ..... Chester county.  
 Sherger, John Adam, ..... 120 Short street, ..... Harrisburg.  
 Shreve, Alexander, ..... 2137 Master, ..... Philadelphia.  
 Simpler, Willard E., ..... 4043 Market, ..... Philadelphia.  
 Smith, Horace Logan, .... Jeannette, ..... Westmoreland county.  
 Smith, Rodney, ..... 1629 Arch street, ..... Philadelphia.  
 Smith, Walter L., ..... Sharpsburg, ..... Allegheny county.  
 Spotts, Albert O., ..... 52d and Master streets,.. Philadelphia.  
 Steadman, Merrill L., .... Mifflinburg, ..... Union county.  
 Steel, Harry Ellis, ..... Huntingdon, ..... Huntingdon county.  
 Stephens, H. De F., ..... 302 Mickle street, ..... Camden, New Jersey.

Stine, Howard F., ..... Mt. Carmel, ..... Northumberland county.  
 Stommel, Henry A., ..... 703 N. 10th street, ..... Philadelphia.  
 Stroup, Freeman P., ..... 12th and Vine streets, .... Philadelphia.  
 Stump, Adam F. M., ..... Womelsdorf, ..... Berks county.  
 Terry, John H., ..... 501 S. 13th street, ..... Philadelphia.  
 Thomas, Frank B., ..... Myersdale, ..... Somerset county.  
 Thrush, Morris C., ..... 33d and Haverford, ..... Philadelphia.  
 Thum, John K., ..... 641 Jackson street, ..... Philadelphia.  
 Ueberroth, Harvey M., .... Bethlehem, ..... Northampton county.  
 Urben, Henry A., ..... 2131 Carson street, ..... Pittsburgh.  
 Walker, John Jay, ..... 2450 Wylie avenue, ..... Pittsburgh.  
 Ward, Merton B., ..... 2740 Powelton avenue, .... Philadelphia.  
 Weitzel, Sue C., ..... 317 S. Main street, ..... Greensburg.  
 Wendel, Wm., ..... 1926 Fountain street, ..... Philadelphia.  
 Wentzler, Hartman G., .... 1115 Mt. Vernon, ..... Philadelphia.  
 Wilson, Hugh M., ..... Long Run, ..... Armstrong county.  
 Wilson, Laban, ..... East Liverpool, ..... Ohio.  
 Wilson, Oliver F., ..... 937 Spruce, ..... Philadelphia.  
 Wolfson, Dr. Julius, ..... 1001 S. 6th street, ..... Philadelphia.  
 Woolcock, Wm., ..... 311 S. Shamokin, ..... Shamokin.  
 Wylie, J. G., ..... 533 Grant street, .... . Pittsburgh.  
 Young, Chas L., ..... 2 Pride street, ..... Pittsburgh.  
 Ziegler, John C., ..... 5901 Main street, ..... Germantown.  
 Zullinger, Aaron H., ..... 1410 Chestnut street, ..... Philadelphia.

#### QUALIFIED ASSISTANTS.

Albert, Moses, ..... 1133 Catherine street, .... Philadelphia.  
 Albright, Chas. H., ..... 16th and Tasker streets, .. Philadelphia.  
 Anderson, Ralph, ..... 1261 N. 15th, ..... Philadelphia.  
 Andress, Harry M., ..... 240 8th avenue, ..... Homestead.  
 Andrews, Wm. K., ..... Mill Village, ..... Erie county.  
 Armstrong, Lloyd F., ..... Grove City, ..... Mercer county.  
 Ashmead, Alfred E., ..... 900 Grays Ferry Road, .... Philadelphia.  
 Aughinbaugh, John K., .... 2500 Oxford, ..... .. Philadelphia.  
 Ball, Clifford A., ..... 736 S. 3d street, ..... Philadelphia.  
 Banker, Philip W., ..... 243 Wyoming avenue, .... Wilkes-Barre.  
 Barkley, Harvey F., ..... Mt. Pleasant, ..... Westmoreland county.  
 Bartho, Fremont K., ..... 1133 S. Broad, ..... Philadelphia.  
 Bartholomew, Arthur, .... 445 W. Norris, ..... Philadelphia.  
 Bates, John P., ..... Mansfield, ..... Tioga county.  
 Beacom, Chas. E., ..... New Brighton, ..... Beaver county.  
 Beale, John M., ..... Mechanicsburg, ..... Cumberland county.  
 Beane, Geo. R., ..... 600 N. 11th, ..... Philadelphia.  
 Beer, J. Lindsey, ..... 501 2d avenue, ..... Pittsburgh.  
 Berberich, Herman, ..... 5th and Venango, ..... Philadelphia.  
 Berry, Robert T., ..... 1133 S. Broad, ..... Philadelphia.  
 Billings, Walton E., ..... Nicholson, ..... Wyoming county.  
 Bishop, David K., ..... 18th & Susquehanna ave., .. Philadelphia.  
 Black, Robert M., ..... 758 Martin, ..... .. Philadelphia.  
 Boericke, Alexis E., ..... 1846 N. 18th, ..... Philadelphia.  
 Bowers, Charley A., ..... Prospect, ..... Butler county.  
 Bradford, El. Burton, ..... 2301 Christian, ..... Philadelphia.

Bready, Wm. R., Jr.,	1921 N. 7th,	Philadelphia.
Brennan, Thos. F.,	1201 Spruce,	Philadelphia.
Brewton, Swain H.,	1155 S. 8th,	Philadelphia.
Brock, Grant W.,	Meadville,	Crawford county.
Brown, Hampton H.,	935 Arch,	Philadelphia.
Browning, John W.,	1619 Wylie avenue,	Pittsburgh.
Buckingham, Harry S.,	1425 N. 18th,	Philadelphia.
Bunker, Henry L.,	Hollidaysburg,	Blair county.
Burford, Ethan A.,	106 Burton avenue,	Washington.
Campbell, Wm. L.,	12th and Market,	Philadelphia.
Cassel, Oscar H.,	Norristown,	Montgomery county.
Chalquest, Gustave E.,	501 S. 13th,	Philadelphia.
Clark, John Edward,	11th and Master,	Philadelphia.
Clark, Robert H.,	20th and Dickinson,	Philadelphia.
Clewell, Lawrence J.,	Berwick,	Columbia county.
Cochran, Harry B.,	1255 Mulberry,	Harrisburg.
Cohen, John Thos.,	ThurLOW,	Delaware county.
Coleman, John E.,	Carbondale,	Lackawanna county.
Converse, Howard R.,	Bloomsburg,	Columbia county.
Cooper, Morris,	2d and York,	Camden, New Jersey.
Cooper, Thos.,	147 Lama street,	Pittsburgh.
Cox, Linwood,	Norristown,	Montgomery county.
Craig, Wm. Franklin,	307 Perryville avenue,	Allegheny.
Crawford, Horace V.,	2348 N. 10th,	Philadelphia.
Criswell, Edward O.,	3401 Wharton street,	Philadelphia.
Culby, Walter G.,	2405 Lombard,	Philadelphia.
Davis, Daniel W.,	East Conemaugh,	Cambria county.
Davis, Jacob B.,	York,	York county.
Davis, John Samuel,	124 Manhattan,	Allegheny.
Davis, Thos. T.,	383 E. Market,	Wilkes-Barre.
Diehl, Geo. E.,	1101 Arch street,	Philadelphia.
Dirmitt, Chas. W.,	19th and Federal,	Philadelphia.
Dixon, John G.,	2401 E. Huntingdon,	Philadelphia.
Dostrow, Alexander,	768 S. 3d street,	Philadelphia.
Doubler, Geo. H.,	1114 Spring Garden,	Philadelphia.
Dougherty, Wm. P.,	Wrightsville,	York county.
Dunn, Edwin A.,	225 Poplar,	Philadelphia.
Engler, Robert S.,	322 N. 6th street,	Reading.
Entwistle, Albert H.,	1724 Harrison,	Frankford.
Espensshade, Ralph C.,	Mifflintown,	Juniata county.
Evans, John C.,	Scottdale,	Westmoreland county.
Fagnan, Geo. C.,	117 Main street,	Bradford.
Farrow, Fred R.,	3015 Fountaine,	Philadelphia.
Faulhaber, Gustave A.,	630 S. 11th street,	Philadelphia.
Fleming, Arthur B.,	King and Bergen,	Chambersburg.
Frank, Joseph T.,	Turtle Creek,	Allegheny county.
Gaertner, Darwin R.,	767 S. 9th street,	Philadelphia.
Gamble, Frank W.,	Beamsville,	Allegheny county.
Geasey, Geo. Washington,	1306 Girard avenue,	Philadelphia.
Gillan, Chas. McD.,	2121 Orthodox street,	Frankford.
Good, Robert F.,	3348 Market,	Philadelphia.
Goodyear, Harry J.,	7 N. 9th street,	Lebanon.
Green, Howard M.,	721 Centre street,	Williamsport.
Griffin, John L.,	Greenville,	Mercer county.
Gruel, John Edward,	541 W. Chestnut,	Lancaster.

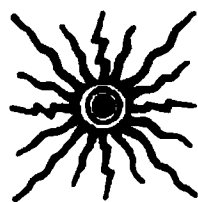
Guth, Herbert W.,	..... Allentown,	..... Lehigh county.
Hannon, Frank A.,	..... New Castle,	..... Lawrence county.
Hartung, Fred. A.,	..... Harmony,	..... Butler county.
Hay, Lamar S., Jr.,	..... Du Bois,	..... Clearfield county.
Heerlein, Ree M.,	..... Tarentum,	..... Allegheny county.
Heinbach, Frank W.,	..... St. Clair,	..... Schuylkill county.
Heintzelman, J. August, Jr.	2000 Ridge avenue,	..... Philadelphia.
High, Raymond,	..... 3254 N. 15th,	..... Philadelphia.
Hixson, Jesse Lee,	..... 3928 Frankford avenue,	..... Philadelphia.
Hoechstetler, Hugo,	..... 7 Lamont street,	..... Philadelphia.
Hoffman, John C.,	..... 203 Chatham,	..... Williamsport.
Hoffman, Wm. Anton,	.... 1007 Huron avenue,	..... Renovo.
Holljes, John L.,	..... 332 S. Patterson Park ave.	Baltimore.
Hostetter, Harry J.,	..... 1131 Franklin street,	..... Reading.
Howard, Horace E.,	..... 20th and Spruce,	..... Philadelphia.
Hughes, Harland K.,	..... 5100 Penn avenue,	..... Pittsburgh.
Hunt, Warren E.,	..... 4317 Westminster avenue,	Philadelphia.
Hutton, Abner C.,	..... 11th and South,	..... Philadelphia.
Jacoby, Thos. D.,	..... 1800 N. 11th,	..... Philadelphia.
Jacoby, Wm. L.,	..... 1600 Pine,	..... Philadelphia.
Jefferis, David S.,	..... 883 N. 45th,	..... Philadelphia.
Jenkins, David E.,	..... 800 Walnut,	..... Philadelphia.
Joffe, Jacob L.,	..... 529 Pine street,	..... Philadelphia.
Kain, John K.,	..... 4000 Girard avenue,	..... Philadelphia.
Kauffman, Samuel,	..... 5th and Lombard,	..... Philadelphia.
Keen, Geo. C.,	..... 20th and Spruce,	..... Philadelphia.
Keen, Geo. S. J.,	..... Wiconisco,	..... Dauphin county.
Keenan, John J.,	..... 2528 Federal,	..... Philadelphia.
Keim, Joseph P.,	..... Bristol,	..... Bucks county.
King, James D.,	..... Easton,	..... Northampton county.
Kock, Christopher, Jr.,	.... 505 Tasker street,	..... Philadelphia.
Kress, Jacob A.,	..... Brownsville,	..... Fayette county.
Lampas, Harry G.,	..... 2433 N. 11th,	..... Philadelphia.
Latchford, Orwan L.,	.... 4th and Berks,	..... Philadelphia.
Lebovitz, Emil,	..... Braddock,	..... Allegheny county.
Lee, H. Frank,	..... Port Kennedy,	..... Montgomery county.
Lehman, Geo. T.,	..... 2967 Frankford avenue,	..... Philadelphia.
Lewis, Daniel W.,	..... 501 E. Girard avenue,	..... Philadelphia.
Liebert, Chas. F.,	..... 1926 E. Cumberland street,	Philadelphia.
Light, Given A.,	..... 849 N. 48th,	..... Philadelphia.
Lightcap, Wm. E.,	..... 513 Pine street,	Camden, New Jersey.
Littlejohn, John B.,	..... 112 Parker street,	Scranton.
Lloyd, Ephraim A.,	..... Lambertville,	..... New Jersey.
Longshaw, Thos. E.,	..... 3907 Ridge avenue,	..... Roxborough.
MacPherran, Ivan L.,	.... 930 Spruce,	..... Philadelphia.
Maybury, Wm. James,	... Slippery Rock,	..... Butler county.
McCoy, Geo. W.,	..... 3709 Woodland avenue,	..... Philadelphia.
McCoy, James E.,	..... Media,	..... Delaware county.
McDonnell, Joseph F.,	.... Centralia,	..... Columbia county.
McGuire, Thos. E.,	..... Mahanoy City,	..... Schuylkill county.
McIntyre, Andrew J.,	.... Catasauqua,	..... Lehigh county.
Megown, Samuel R.,	..... New Castle,	..... Lawrence county.
Metzler, Walter,	..... 1011 Walnut,	..... Philadelphia.
Meyers, Judson M.,	..... 7 S. Main street,	..... Wilkes-Barre.

Miller, Geo. P., ..... 7th and Arch, ..... Philadelphia.  
 Miller, Morris W., M. D.,... 102 Schuylkill avenue,.... Reading.  
 Miller, Nelson Guy, ..... 10th and Spruce, ..... Philadelphia.  
 Mills, Leopold J., ..... 2200 N. 15th, ..... Philadelphia.  
 Monaghan, Thos. F., ..... 2327 N. 3d, ..... Philadelphia.  
 Monroe, Wm. R., ..... 1213 Green, ..... Philadelphia.  
 Mooney, Frank, ..... 3600 Richmond, ..... Philadelphia.  
 Nevin, Wm. S., ..... 1221 5th avenue, ..... Pittsburgh.  
 Ney, Howard J., ..... 1428 Regina, ..... Harrisburg.  
 O'Donnell, Daniel C., ..... Shenandoah, ..... Schuylkill county.  
 Osterlund, Otto Wm., ..... Overbrook, ..... Philadelphia.  
 Parse, Andrew C., ..... 1252 S. 13th, ..... Philadelphia.  
 Pasold, Julius M., ..... 2328 N. 29th, ..... Philadelphia.  
 Pauly, Joseph Chas., ..... 104 Gist, ..... Pittsburgh.  
 Peacock, Geo. K., ..... 223 Market, ..... Kittanning.  
 Pennell, J. Chester, ..... 895 Belmont avenue, .... Philadelphia.  
 Perse, James W., ..... 632 N. 18th, ..... Philadelphia.  
 Porter, Fred'k K., ..... 106 Buena Vista, ..... Allegheny.  
 Preston, Gilbert K., ..... 511 S. 9th, ..... Philadelphia.  
 Purvis, Samuel G., ..... 77 Washington avenue,... Pittsburgh.  
 Putt, Milton Thos., ..... 259 S. 10th street, ..... Lebanon.  
 Rains, Edward Lee, ..... 1400 Spruce, ..... Philadelphia.  
 Raker, John W., ..... 155 W. Huntingdon, ..... Philadelphia.  
 Randolph, Edward F., .... 1838 Mt. Vernon, ..... Philadelphia.  
 Relce, Wm., ..... Bloomsburg, ..... Columbia county.  
 Reinhart, Robert L., ..... 4th and Indiana avenue,.. Philadelphia.  
 Reynolds, Alva C., ..... 323 Marshall, ..... Philadelphia.  
 Rhoads, Robert E., ..... 1319 Girard avenue, ..... Philadelphia.  
 Richardson, James, ..... 941 Spruce, ..... Philadelphia.  
 Rihn, Edward J., ..... 64 Chestnut, ..... Allegheny.  
 Roberts, De Wilton S.,.... Swede and Airy, ..... Norristown.  
 Robinson, Joseph, ..... 343 N. 2d, ..... Philadelphia.  
 Roessner, Benj., ..... 1302 Lawrence, ..... Philadelphia.  
 Rooney, James P., ..... 32 Swallow, ..... Pittston.  
 Rosenzweig, Chas. J.,.... 299 Ohio street, ..... Allegheny.  
 Rovno, Pinkas, ..... 724 S. 3d, ..... Philadelphia.  
 Ryan, Wm. S., ..... 5040 Wayne, ..... Philadelphia.  
 Sallada, Hunter, ..... Mahanoy City, ..... Schuylkill county.  
 Schlauch, Theo. S., ..... Darby, ..... Delaware county.  
 Schnell, James A., ..... 160 Robinson, ..... Allegheny.  
 Scott, Emma L., ..... 1035 Ran, ..... Philadelphia.  
 Settle, Peter S., ..... 4132 Thompson, ..... Frankford.  
 Seubert, Chas. A., ..... 1200 Locust, ..... Philadelphia.  
 Shaffer, John E., ..... 324 8th avenue, ..... Homestead.  
 Shamroy, Elisha, ..... 1033 5th avenue, ..... Pittsburgh.  
 Sheltz, Lloyd A., ..... 3d and Washington ave.,. Philadelphia.  
 Shirey, Orville L., ..... 21st and Norris, ..... Philadelphia.  
 Simcox, Howard L., ..... 1500 Cumberland street,... Philadelphia.  
 Sleifer, Jay W., ..... 1008 South, ..... Philadelphia.  
 Slobodkin, Rose, ..... 529 Pine, ..... Philadelphia.  
 Smith, Justin T., ..... 1400 McKean, ..... Philadelphia.  
 Smith, W. Gordon, ..... 2758 N. 15th, ..... Philadelphia.  
 Stackhouse, J. A., ..... 594 Bath, ..... Bristol.  
 Stahle, Robert N., ..... 1301 Columbia avenue, ... Philadelphia.



Stanford, Ralph O., .....	Cambridge Springs, .....	Crawford county.
Steckman, Chas. A., .....	444 W. Orange, .....	Lancaster.
Stern, Wilson C. A., .....	1759 N. 10th, .....	Philadelphia.
Streeper, Austin, .....	311 Haws avenue, .....	Norristown.
Studebaker, Latimer H.,....	1026 Parade street, .....	Erie.
Studholme, P. Foster, .....	Smethport, .....	McKean county.
Swartley, Harry M., .....	Chestnut Hill, .....	Philadelphia.
Swearingen, Wm. H., .....	5147 Penn avenue, .....	Pittsburgh.
Taff, Samuel M., .....	3715 Lancaster avenue,....	Philadelphia.
Tassell, Mary E., .....	Latrobe, .....	Westmoreland county.
Thompson, Harry M., .....	1300 S. 5th street, .....	Philadelphia.
Thompson, Henry K., .....	1211 Mt. Vernon, .....*	Philadelphia.
Thornton, Michael T., .....	16th and Summer street,..	Philadelphia.
Tomlinson, Geo. W., .....	824 W. Somerset, .....	Philadelphia.
Troxell, Fred'k B., .....	1737 Gratz, .....	Philadelphia.
Troxell, John I. P., .....	1013 Cherry, .....	Philadelphia.
Underwood, James H., ....	247 S. 15th, .....	Philadelphia.
Urey, Frank F., .....	Sandy Lake, .....	Mercer county.
Voss, Adolph C., .....	2606 E. Allegheny avenue,.	Philadelphia.
Waite, Henry F., .....	2401 E. York, .....	Philadelphia.
Waldner, Herman T., .....	3126 Columbia avenue, ...	Philadelphia.
Walker, Frank F., .....	1813 Middle, .....	Sharpsburg.
Walter, Wm. B., .....	800 Walnut, .....	Philadelphia.
Ward, Merton B., .....	3740 Powelton avenue, ....	Philadelphia.
Watson, Horace W., .....	20 Chestnut, .....	Allegheny.
Watson, James N., .....	6th and Thompson, .....	Philadelphia.
Weiss, Chas. J., .....	1376 2d avenue, .....	Pittsburgh.
Weiss, Hervey B., .....	1936 Howard, .....	Philadelphia.
Weitzel, Sue C., .....	22d and N. College avenue,	Philadelphia.
Wentzler, H. G., .....	1103 Green street, .....	Philadelphia.
West, Geo. V., .....	Shaws ave. and Sinclair,..	McKeesport.
Welland, Chas., .....	2065 Moore, .....	Philadelphia.
Winkler, Oscar C., .....	5th and Cambria, .....	Philadelphia.
Winnett, Wray B., .....	Washington, .....	Washington county.
Winslow, John H., .....	1840 S. 10th, .....	Philadelphia.
Wiza, Joseph L., .....	4510 Penn, .....	Bridesburg.
Wolf, Chas. A., .....	11th and Master, .....	Philadelphia.
Zeamer, Henry C., .....	146 N. Queen, .....	Lancaster.
Zeller, Harry L., .....	600 S. Broad, .....	Philadelphia.
Zelgler, Chester W., .....	1400 Spruce, .....	Philadelphia.
Zion, Louis, .....	1015 Fitzwater, .....	Philadelphia.





APPENDIX P.

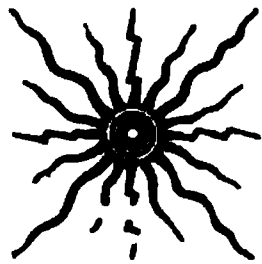
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REPORT  
OF THE  
MEDICAL COUNCIL  
OF  
PENNSYLVANIA.

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1894-1898.

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## LETTER OF TRANSMITTAL.

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To His Excellency, Daniel H. Hastings, Governor of Pennsylvania.

Sir: I have the honor to submit herewith the report of the Medical Council of Pennsylvania, covering its operations from the time of its organization, April 5, 1894, to the present date.

In pursuance of the act of the General Assembly, approved May 18, 1893, "To establish a Medical Council and three State Boards of Medical Examiners, to define the powers and duties of said Medical Council and said State Boards of Medical Examiners, to provide for the examination and licensing of practitioners of medicine and surgery, to further regulate the practice of medicine and surgery, and to make an appropriation for the Medical Council," a meeting was held in the Department of Public Instruction, April 5, 1894, and an organization of the Medical Council was effected as follows:

President, Nathan C. Schaeffer, Superintendent of Public Instruction; Secretary and Treasurer, Thomas J. Stewart, Secretary of Internal Affairs; L. A. Watres, Lieutenant Governor; W. U. Hensel, Attorney General; S. T. Davis, President State Board of Health and Vital Statistics; Horace G. McCormick, M. D., President of the Medical Examining Board, representing the Medical Society of Pennsylvania; Augustus Korndoerfer, M. D., President of the Homoeopathic Medical Examining Board, representing the Homeopathic Medical Society of the State of Pennsylvania; H. B. Piper, M. D., President of the Eclectic Medical Examining Board, representing the Eclectic Medical Society of the State of Pennsylvania.

The office of the Secretary of Internal Affairs was selected as the place for holding the meetings of the council.

Steps were immediately taken by the Secretary to procure the proper equipment for the work of the Council, such as engraved plates, books, blanks, records, stationery and other things that might be found necessary in the execution of the law regulating the practice of medicine in this State. Some difficulties attend the establishment of any new department, and in this instance they were increased by the entirely new character of the work, the absence of any precedents to serve as guides in the preparation of blanks and books of

record, and the fact that the Council is given supervision over three different State boards of examiners, representing the State Medical Society, the State Homoeopathic Society and the State Eclectic Society. The three State Medical Examining Boards organized under the provisions of the act referred to comprise seven members each, appointed by the Governor for a term of three years. They conduct their examinations under the supervision of the Council. The first examinations were held June 11-14, 1894, the State Medical Board meeting in Philadelphia and Pittsburgh, the Homoeopathic Board in Philadelphia, and the Eclectic Board in Harrisburg. Examinations have been held at intervals of about six months since that time, and the number of persons examined has been 2,090, divided as follows: State Medical Society Board, 1,523; Homoeopathic Board, 210; Eclectic Board, 32. Of this number 1,763 passed the examination successfully and received licenses from the Medical Council as follows: State Medical Society Board, 1,523; Homoeopathic Board, 210; Eclectic Board, 30. Of the total number examined 86 were examined twice, 10 three times, 2 four times, 1 five times. Licenses were also issued to 18 applicants holding licenses from the State of New York and to 31 holding licenses issued by the State of New Jersey.

The present members of the Council are:

President, Nathan C. Schaeffer, Superintendent of Public Instruction; Secretary and Treasurer, James W. Latta, Secretary of Internal Affairs; Walter Lyon, Lieutenant Governor; Henry C. McCormick, Attorney General; Pemberton Dudley, M. D., President State Board of Health and Vital Statistics; Horace G. McCormick, M. D., President of the Medical Examining Board, representing the Medical Society of Pennsylvania; Edward Cranch, M. D., President of the Homoeopathic Medical Examining Board, representing the Homoeopathic Medical Society of the State of Pennsylvania; Henry Yeagley, M. D., President of the Eclectic Medical Board, representing the Eclectic Medical Society of the State of Pennsylvania.

The present members of the Examining Boards are:

#### State Medical Society Board.

President, Horace G. McCormick, M. D., Williamsport.

Secretary, William S. Foster, M. D., 252 Shady Ave., Pittsburgh.

Henry Beates, Jr., M. D., 1421 Girard Ave., Philadelphia.

Allan H. Hulshizer, M. D., 1419 East Susquehanna Ave., Philadelphia.

Saml. W. Latta, M. D., 3626 Baring St., Philadelphia.

Winters D. Hamaker, M. D., Meadville.

Joseph K. Weaver, M. D., Norristown.

### Homoeopathic Board.

President, Edward Cranch, M. D., Erie.

Secretary, Joseph C. Guernsey, M. D., 1923 Chestnut St., Philadelphia.

Augustus Korndoerfer, M. D., 1728 Green St., Philadelphia.

Isaac G. Smedley, M. D., 1705 Arch St., Philadelphia.

John F. Cooper, M. D., 105 Arch St., Pittsburgh.

John J. Detwiller, M. D., Easton.

L. H. Willard, M. D., Allegheny.

### Eclectic Board.

President, Henry Yeagley, M. D., Lancaster.

Secretary, M. A. Kirk, M. D., Bellefonte.

W. H. Blake, M. D., 2116 Mervine St., Philadelphia.

A. B. Woodward, M. D., Tunkhannock.

L. P. O'Neal, M. D., Mechanicsburg.

William Rauch, M. D., Johnstown.

C. M. Ewing, M. D., Tyrone.

Statistics are given herewith showing the number of applicants from each medical institution, number passed, number failed, percentage passed, percentage failed, average grade of each institution, general average grade, and the highest average obtained by any individual; also the names of the individuals, the institutions from which graduated, the school of medicine and the average grade received by each individual.

When the act creating the Council and the examining boards was under consideration by the Legislature, it met with opposition from those who claimed that such a law was unnecessary, that the medical colleges were amply able to protect the public against incompetent and faithless practitioners of medicine. The law has now been in force for four years, and its utility has been thoroughly demonstrated. The results of the examinations conducted by the three State Examining Boards show conclusively the wisdom of the enactment, and the advantages of having the teaching and licensing powers separate and distinct from each other are fully apparent. The act has received the united support of the medical profession throughout the State, and it has been necessary in only a few cases to invoke the aid of the law in its enforcement.

It is evident to those who have given the matter consideration, that the interests and welfare of the public are conserved by intelligent and skillful medical service, and the present law is daily growing in favor with the people, as they reach a fuller comprehension of its purport. For years past many of the physicians throughout the country have been making earnest efforts to elevate the standard of

medical education, and it is only proper and right that the State should do all in its power to sustain and assist an object so worthy and so conducive to the happiness of our people.

That the people generally are awakening to the necessity for a higher degree of efficiency in the medical profession is evidenced by the fact that at present there are 27 states and territories where diplomas no longer confer the right to practice medicine and surgery, an examination being required by a state board. In 8 states and territories approval of diplomas or state board examination is required. This shows the growing interest in the matter of the public health, and under the law of our own State the standard is being rapidly elevated, and the days of the quack, charlatan and imposter are numbered.

The question of preliminary education has been carefully considered by the Medical Council. The act requires that the applicant shall have a "competent common school education," and in order to carry out this provision of the law they adopted, on September 24, 1895, a minimum standard of qualification. This was amended April 15, 1897. The preliminary requirements will be found printed elsewhere in this report. The Council is of the opinion that the term "common school education," as now used, does not give to the applicant a sufficient academic education. This has been confirmed by the experience of the examining boards. A very large proportion of the applicants who failed to secure the average necessary to obtain a license, failed by reason of their inadequate preliminary education, which was not sufficient to enable them to give intelligent answers to the questions propounded. Their knowledge of medical terms and of the English language in many cases being so limited that they were entirely unable to comprehend the subject. After the preliminary requirements have become operative applicants will not gain entrance to the examinations unless possessed of more thorough preliminary training; but a proper standard cannot be attained until there is an amendment of the present law, requiring a more liberal and comprehensive education before the applicant enters upon the study of medicine.

The Medical Council recognizes and indorses licenses from the State of New Jersey, and the New Jersey authorities recognize those of Pennsylvania. Negotiations are under way by which there will be similar reciprocity with the Board of Regents of New York State. The Council is anxious that this system of exchange shall be extended to as many states as possible, and during the present year it is hoped that additional states will be added to the list.

The three boards of medical examiners, although belonging to different schools of medicine, have worked harmoniously with but one

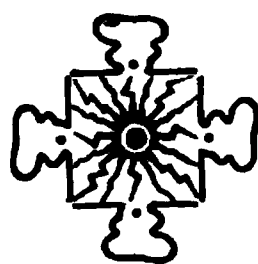
purpose—that of elevating the standard of the medical profession and protecting the public from incompetent practitioners.

Since the enactment of the present law it can no longer be said that persons refused admission to practice in other states can enter upon practice in Pennsylvania. On the contrary, the standard in this State has been elevated to such an extent that it already commands the indorsement of our licenses by many of the other states.

JAMES W. LATTA,  
Secretary.

Harrisburg, March 1, 1898.





STATISTICS RELATING TO THE EXAMINATIONS OF MEDICAL STUDENTS by the State Boards of Medical Examiners of Pennsylvania, showing the number examined from each institution, number passed, number failed, percentage passed, percentage failed, general average grade, average grade of each institution, and the highest average obtained by any individual.

STATE MEDICAL SOCIETY EXAMINING BOARD.—June 11-14, 1894.

Colleges.	Number Examined.		Number Passed.		Number Failed.		Percentage Passed.		Percentage Failed.		Average Grade.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Baltimore Medical College, Baltimore.	76	.....	76	.....	1	.....	98.68	.....	1.32	.....	86.98
College of Physicians and Surgeons, Baltimore.	71	.....	65	.....	6	.....	91.55	.....	8.45	.....	83.45
Miscellaneous Colleges, ...	26	.....	23	.....	3	.....	88.46	.....	11.54	.....	82.42
	44	.....	41	.....	3	.....	93.18	.....	6.82	.....	81.25
	.....	13	.....	16	.....	2	.....	83.33	.....	11.11	84.06
Totals.	247	21	220	13	27	3	.....	.....	.....	.....	.....

General average grade, males, 82.08.  
General average grade, females, 80.86.  
Highest average obtained.  
Theodore Burton Appel, University of Pennsylvania, 86.04.

October 16-19, 1894.

University	9	.....	7	.....	1	.....	88.89	.....	11.11	.....	81.89
Jefferson	7	.....	4	.....	3	.....	57.14	.....	42.86	.....	74.51
Medico-Chi	2	.....	2	.....	.....	.....	100.00	.....	.....	.....	76.86
West Penn Medical College, Pittsburgh.	1	.....	1	.....	.....	.....	100.00	.....	.....	.....	75.08
College of Physicians and Surgeons, Baltimore.	1	.....	1	.....	.....	.....	100.00	.....	.....	.....	86.22
Miscellaneous Colleges, ...	13	.....	13	.....	.....	.....	100.00	.....	.....	.....	81.10
Totals.	23	.....	23	.....	4	.....	.....	.....	.....	.....	.....

General average grade, male, 79.48.  
Highest average obtained.  
W Oakley Hermann, University of Pennsylvania, 81.04.

## STATE MEDICAL SOCIETY EXAMINING BOARD.—December 17-20, 1895.

Colleges.	Number Examined.		Number Passed.		Number Failed.		Percentage Passed.		Percentage Failed.		Average Grade.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
.....	20	.....	19	.....	1	.....	95.00	.....	5.00	.....	82.21
.....	11	.....	7	.....	4	.....	63.64	.....	36.36	.....	77.00
.....	7	.....	3	.....	4	.....	42.86	.....	57.14	.....	75.00
.....	2	.....	1	.....	1	.....	50.00	.....	50.00	.....	71.24
.....	.....	7	.....	5	.....	2	.....	71.43	.....	28.57	77.34
Baltimore Medical College, Baltimore, .....	1	.....	.....	.....	1	.....	.....	.....	100.00	.....	88.96
College of Physicians and Surgeons, Baltimore, .....	5	.....	3	.....	2	.....	60.00	.....	40.00	.....	73.00
Miscellaneous Colleges, .....	21	2	14	2	7	.....	66.67	200.00	33.33	.....	71.61
Totals, .....	67	9	47	7	20	2	.....	.....	.....	.....	73.19

General average grade, male, 74.63.

General average grade, female, 77.68.

Highest average obtained:

Granville Louis Agency, University of Pennsylvania, 88.71.

June 16-19, 1896.

.....	45	.....	43	.....	.....	.....	100.00	.....	.....	.....	82.05
.....	131	.....	123	.....	8	.....	93.89	.....	6.11	.....	83.67
.....	44	.....	41	.....	3	.....	93.18	.....	6.82	.....	81.62
.....	79	.....	61	.....	18	.....	77.22	.....	22.78	.....	73.05
.....	.....	9	.....	9	.....	.....	100.00	.....	.....	.....	81.06
Baltimore Medical College, Baltimore, .....	17	.....	15	.....	2	.....	88.24	.....	11.76	.....	80.40
College of Physicians and Surgeons, Baltimore, .....	14	.....	13	.....	1	.....	92.86	.....	7.14	.....	84.48
Miscellaneous Colleges, .....	138	3	23	1	10	.....	75.67	100.00	24.33	.....	75.25
Totals, .....	371	10	323	10	42	.....	.....	.....	.....	.....	78.13

General average grade, male, 82.42.

female, 81.00.

Is, Jefferson Medical College, 83.12.

One expelled; not included in averages.

One withdrew; not included in averages.

February 12-16, 1886.

Baltimore Medical College, Baltimore, .....	6	.....	6	.....	.....	100.00	.....	.....	.....	85.18
College of Physicians and Surgeons, Baltimore, .....	8	.....	6	.....	.....	75.00	.....	25.00	.....	77.92
Miscellaneous Colleges, .....	2	.....	1	.....	.....	50.00	.....	50.00	.....	78.34
Totals, .....	26	4	20	2	6	2	.....	.....	.....	84.48

General average grade, male, 78.36.  
 General average grade, female, 87.81.  
 Highest average obtained:  
 Otto Carl Gaub, University of Pennsylvania, 95.84.

June 18-21, 1886.

Baltimore Medical College, Baltimore, .....	137	.....	136	.....	.....	99.87	.....	.....	.....	84.26
College of Physicians and Surgeons, Baltimore, .....	56	.....	63	.....	.....	96.45	.....	4.61	.....	84.11
Miscellaneous Colleges, .....	41	.....	57	.....	.....	90.24	.....	9.32	.....	81.38
Totals, .....	234	.....	256	.....	.....	94.87	.....	13.33	.....	81.51
Baltimore Medical College, Baltimore, .....	16	.....	8	.....	.....	99.00	.....	30.00	.....	78.79
College of Physicians and Surgeons, Baltimore, .....	18	.....	13	.....	.....	74.47	.....	23.53	.....	81.40
Miscellaneous Colleges, .....	28	.....	20	.....	.....	71.43	.....	28.57	.....	78.36
Totals, .....	240	.....	328	.....	.....	.....	.....	.....	.....	76.18

General average, male, 82.78.  
 General average, female, 79.84.  
 Highest average obtained:  
 Bower Edwin Himes, Jefferson Medical College, M.D.  
 \*Expelled; not included in averages.



## STATE MEDICAL SOCIETY EXAMINING BOARD.—December 13-16, 1907

Colleges.	Number Examined.		Number Passed.		Number Failed.		Percentage Passed.		Percentage Failed.		Average Grade.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Baltimore Medical College, Baltimore, .....	20	.....	17	.....	3	.....	85.00	.....	15.00	.....	80.33
College of Physicians and Surgeons, Baltimore, .....	16	.....	15	.....	.....	.....	100.00	.....	.....	.....	82.09
Miscellaneous Colleges, .....	6	.....	4	.....	1	.....	66.67	.....	33.33	.....	74.82
Totals, .....	22	.....	36	.....	6	.....	85.00	.....	15.00	.....	80.33
Baltimore Medical College, Baltimore, .....	5	.....	1	.....	4	.....	20.00	.....	80.00	.....	68.81
College of Physicians and Surgeons, Baltimore, .....	3	.....	3	.....	.....	.....	100.00	.....	.....	.....	77.17
Miscellaneous Colleges, .....	23	.....	21	.....	2	.....	91.30	.....	8.70	.....	77.03
Totals, .....	38	.....	35	.....	3	.....	91.30	.....	8.70	.....	71.90

General average grade, male, 78.91.

General average grade, female, 77.15.

Highest average obtained.

Robert Phillips McReynolds, University of Pennsylvania, 91.81.

One expelled; not included in averages.

## HOMOEOPATHIC MEDICAL SOCIETY EXAMINING BOARD.—June 11-14, 1904.

Hahnemann Medical College, Philadelphia, .....	36	.....	33	.....	3	.....	91.67	.....	8.33	.....	82.84
Cleveland Medical College, Cleveland, .....	1	.....	1	.....	.....	.....	100.00	.....	.....	.....	78.10
Cleveland University of M. and S., Cleveland, .....	2	.....	1	.....	1	.....	50.00	.....	50.00	.....	68.50
Hahnemann Medical College, Chicago, .....	1	.....	1	.....	.....	.....	100.00	.....	.....	.....	82.40
Homoeopathic Medical College, Baltimore, .....	1	.....	.....	.....	1	.....	.....	.....	100.00	.....	78.80
Miscellaneous Colleges, .....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	87.40
Totals, ..	41	.....	36	.....	5	.....	.....	.....	.....	.....	.....

General average grade, male, 81.80.

General average grade female, 83.20.

Highest average obtained:

Charles J. V. Fries, Hahnemann Medical College, Philadelphia, 94.80.

William Muthard Hillegas, Hahnemann Medical College, Philadelphia, 93.80.



HOMOEOPATHIC MEDICAL SOCIETY EXAMINING BOARD.—June 11-14,

Colleges.	Number Examined.		Number Passed.		Number Failed.		Percentage Passed.		Percentage Failed.		Average Grade.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Philadelphia, .....	11	.....	6	.....	5	.....	54.55	.....	45.45	.....	71.23
and S. Cleveland, .....	.....	1	.....	.....	.....	.....	.....	.....	.....	100.00	49.00
Medicine, Boston, .....	1	.....	.....	.....	1	.....	.....	.....	100.00	.....	52.00
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	100.00	.....
Totals, .....	12	2	6	.....	6	2	.....	.....	.....	.....	.....

General average grade, male, 69.73.  
General average grade, female, 49.80.  
Highest average obtained:  
Alfred Cookman, Hahnemann Medical College, Philadelphia, 80.70.  
Withdrew after first examination.

JUNE 16-19, 1896.

.....	47	.....	44	.....	3	.....	93.06	.....	6.94	.....	94.27
.....	5	.....	4	.....	1	.....	80.00	.....	20.00	.....	80.78
.....	6	.....	4	.....	1	.....	80.00	.....	20.00	.....	78.65
.....	3	.....	3	.....	.....	.....	100.00	.....	.....	.....	78.78
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	87.14
.....	1	.....	.....	.....	1	.....	.....	.....	100.00	.....	61.57
Totals, .....	61	2	55	2	6	1	.....	.....	.....	.....	49.23

General average grade, male, 81.71.  
General average grade, female, 78.28.  
Highest average obtained:  
Augustus Korndorfer, Jr., Hahnemann Medical College, Philadelphia, 86.71.



December 14-17, 1896.

Hahnemann Medical College, Philadelphia, .....	3	.....	3	.....	.....	100.00	.....	.....	89.90
Cleveland Medical College, Cleveland, .....	2	.....	1	.....	.....	50.00	.....	.....	69.86
Hahnemann, Chicago, .....	.....	.....	.....	.....	.....	.....	.....	.....	96.57
Western Homeopathic Medical College, Cleveland, .....	1	.....	.....	.....	.....	100.00	.....	.....	83.43
Totals, .....	6	2	5	2	1	.....	.....	.....	83.14

General average grade, male, 82.28.  
General average grade, female, 96.57.  
Highest average obtained:  
Anna Devinn Varner, Cleveland Medical College, 96.57.

June 15-18, 1897.

Hahnemann Medical College, Philadelphia, .....	29	.....	.....	.....	.....	100.00	.....	.....	88.25
Cleveland Medical College, Cleveland, .....	11	.....	.....	.....	.....	81.82	.....	.....	84.19
Cleveland University of M. and S., Cleveland, .....	6	.....	1	.....	.....	50.00	.....	.....	76.21
Hahnemann Medical College, Chicago, .....	2	.....	.....	.....	.....	100.00	.....	.....	65.71
Miscellaneous Colleges, .....	6	.....	2	.....	.....	100.00	.....	.....	87.07
Totals, .....	54	3	49	2	5	.....	.....	.....	89.33

General average grade, male, 86.18.  
General average grade, female, 85.28.  
Highest average obtained:  
Verner Simpson Gaggin, New York Homeopathic Medical College, 96.71.

December 13-16, 1897.

Hahnemann Medical College, Philadelphia, .....	4	.....	.....	.....	.....	75.00	.....	.....	72.78
Cleveland Medical College, Cleveland, .....	1	.....	.....	.....	.....	.....	.....	.....	47.71
Cleveland University of M. and S., Cleveland, .....	1	.....	.....	.....	.....	.....	.....	.....	65.43
Hahnemann Medical College, Chicago, .....	1	.....	.....	.....	.....	100.00	.....	.....	75.28
Miscellaneous Colleges, .....	1	.....	.....	.....	.....	100.00	.....	.....	75.43
Totals, .....	8	1	5	1	3	.....	.....	.....	87.00

General average grade, male, 70.12.  
General average grade, female, 87.00.  
Highest average obtained:  
Margaret Elizabeth Burgess, Hering Medical College and Hospital, Chicago, 87.00.

ECLECTIC MEDICAL SOCIETY EXAMINING BOARD—June 11-14, 1894.

Colleges.	Number Examined.		Number Passed.		Number Failed.		Percentage Passed.		Percentage Failed.		Average Grade.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Eclectic Medical Institute, Cincinnati, .....	6	.....	6	.....	.....	.....	100.00	.....	.....	.....	89.84
Eclectic Medical College, St. Louis, .....	1	.....	1	.....	.....	.....	100.00	.....	.....	.....	79.57
Miscellaneous Colleges, .....	1	.....	.....	.....	1	.....	.....	.....	100.00	.....	61.14
Totals, .....	8	.....	7	.....	1	.....	.....	.....	.....	.....	.....

General average grade, male, 86.02.  
Highest average obtained:  
A. M. W. Fulton, Eclectic Medical Institute, Cincinnati, 95.30.

October 16-19, 1894.

Eclectic Medical Institute, Cincinnati, .....	1	.....	1	.....	.....	.....	100.00	.....	.....	.....	86.57
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February 12-15, 1895.

Eclectic Medical Institute, Cincinnati, .....	2	.....	2	.....	.....	.....	100.00	.....	.....	.....	82.61
Baltimore Medical College, Baltimore, .....	1	.....	1	.....	.....	.....	100.00	.....	.....	.....	82.86
Totals, .....	3	.....	3	.....	.....	.....	.....	.....	.....	.....	.....

General average grade, male, 83.36.  
Highest average obtained:  
Eugene D. Geer, Eclectic Medical Institute, Cincinnati, 84.36.

## June 18-21, 1895.

Eclectic Medical Institute, Cincinnati, .....	2	.....	2	.....	.....	100.00	.....	.....	87.07
Baltimore Medical College, Baltimore, .....	1	.....	1	.....	.....	100.00	.....	.....	88.23
Georgia College of Eclectic M. and S., .....	1	.....	1	.....	.....	100.00	.....	.....	88.43
Totals, .....	4	.....	4	.....	.....	.....	.....	.....	.....

General average grade, male, \$7.46.

Highest average obtained:

George A. Noon, Georgia College of Eclectic M. and S., \$8.43.

## December 17-20, 1895.

University of Vermont, .....	1	.....	1	.....	.....	100.00	.....	.....	88.86
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## June 16-19, 1896.

Eclectic Medical Institute, Cincinnati, .....	3	.....	3	.....	.....	100.00	.....	.....	88.47
Baltimore Medical College, Baltimore, .....	1	.....	1	.....	.....	100.00	.....	.....	90.71
Totals, .....	4	.....	4	.....	.....	.....	.....	.....	.....

General average grade, male, \$7.53.

Highest average obtained:

Charles Franklin Livengood, Baltimore Medical College, \$0.71.

## June 15-18, 1897.

Eclectic Medical Institute, Cincinnati, .....	7	.....	7	.....	.....	100.00	.....	.....	88.29
Baltimore Medical College, Baltimore, .....	1	.....	1	.....	.....	100.00	.....	.....	88.51
Georgia College of Eclectic M. and S., .....	1	.....	1	.....	.....	100.00	.....	.....	79.72
Eclectic Medical College, Milwaukee, .....	1	.....	1	.....	100.00	.....	.....	.....	88.70
Totals, .....	10	.....	9	.....	1	.....	.....	.....	.....

General average grade, male, 72.74.

Highest average obtained:

Joseph C. Dunn, Eclectic Medical Institute, Cincinnati, 88.14.

ECCLECTIC MEDICAL SOCIETY EXAMINING BOARD—January 11-14, 1898.

Colleges.	Number Examined.		Number Passed.		Number Failed.		Percentage Passed.		Percentage Failed.		Average Grade.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Philadelphia University of M. and S., .....	1	.....	1	.....	.....	.....	100.00	.....	.....	.....	88.00

# LIST OF PERSONS EXAMINED BY THE STATE MEDICAL EXAMINING BOARDS.

Showing those to whom licenses have been granted by the Medical Council of Pennsylvania, and also indicating the failures (without names of individuals), the colleges from which examinees were graduated, and the individual averages. The different schools of medicine are designated as follows: (1) Allopathic; (2) Homoeopathic; (3) Eclectic.

Names.	Colleges.	Averages.
<b>1894:</b>		
Adams, Charles Merton,.....	Baltimore University School of Medicine (1), .....	73.32
Alexander, James Newton,...	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.29
Allen, Harry Melvin, .....	Jefferson Medical College, Philadelphia (1), .....	85.94
Allis, Jere Augustus, .....	Medico-Chirurgical College, Philadelphia, (1), .....	88.93
Ankeny, Clinton Rench, .....	College of P. and S., New York, N. Y. (1), .....	79.60
Appel, Theodore Burton, .....	University of Pennsylvania (1), .....	83.78
Ayars, Robert Emerson, .....	University of Pennsylvania (1), .....	96.04
	University of Pennsylvania (1), .....	83.49
<b>1895:</b>		
	Western Pennsylvania Medical College, Pittsburgh (1), .....	74.52
Aber, A. Howard, .....	College of P. and S., Baltimore (1), .....	84.47
Abele, Robert J., .....	Hahnemann Medical College, Philadelphia (2), .....	98.60
Adair, William G., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.95
Allison, Edwin E., .....	University of Pennsylvania (1), .....	85.41
Allen, William Cline, .....	University of the South, Sewanee, Tenn. (1), .....	82.43
Allman, Alfred F., .....	Jefferson Medical College (1), .....	86.79
Alter, Joseph G., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.10
Anderson, Clyde O., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	87.64
Angeny, Granville Louis, .....	University of Pennsylvania (1), .....	88.71
Arn, Gottfried, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.50
	University of Louisville, Louisville, Ky. (1), .....	73.33
	Medico-Chirurgical College, Philadelphia (1), .....	64.64
<b>1896:</b>		
Abbatechio, Nickolas, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.33
Adams, Charles T., .....	Jefferson Medical College (1), .....	88.20
Aichner, Otto Charles, .....	Baltimore University School of Medicine (1), .....	76.23
Albright, Roderick E., .....	Jefferson Medical College (1), .....	91.10
Alleman, Frank, .....	Jefferson Medical College (1), .....	88.61
Alley, John Newton, .....	Medico-Chirurgical College, Philadelphia (1), .....	71.84
Allison, James G., .....	Jefferson Medical College (1), .....	84.94
	Baltimore Medical College, Baltimore, Md. (1), .....	85.30
Allison, Thomas Baird, .....	Medical College of Indiana, Indianapolis (1), .....	60.96
Amilon, Ivan Emil, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	90.04
Archibald, Francis Edward, .....	Jefferson Medical College (1), .....	87.94
Arnold, Jesse Oglevee, .....	Hahnemann Medical College, Philadelphia (2), .....	76.28
	Jefferson Medical College (1), .....	77.41
<b>1897:</b>		
	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.47
Ackerman, John, .....	Medico-Chirurgical College, Philadelphia (1), .....	82.64
Ake, Nicholas Ferd. Kelly, .....	Medico-Chirurgical College, Philadelphia (1), .....	86.44
Allen, David Edmund, .....	Jefferson Medical College, Philadelphia (1), .....	79.86
Allen, Jesse Hall, .....	University of Pennsylvania (1), .....	78.86
	Medico-Chirurgical College, Philadelphia (1), .....	68.98
Ankney, Edward Griffith, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	58.43
Anspach, Brooke M., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.32
Apgar, Charles Schelrer, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.66
Appleman, Leighton F., .....	University of Pennsylvania (1), .....	80.50
Artelt, Henry, .....	Jefferson Medical College (1), .....	87.84
Arthur, Walter Cathcart, .....	University of Pennsylvania (1), .....	92.29
Arthur, Alexander Beck, .....	University of Maryland School of Medicine, Balt. (1), .....	84.33
Atkins, Joseph Caleb, .....	Hahnemann Medical College, Philadelphia (2), .....	95.14
	University of Pennsylvania (1), .....	84.80
	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.61
	Medical College of Indiana, Indianapolis (1), .....	50.43
<b>1898:</b>		
Baldwin, Henry Louis, .....	University of Tennessee (1), .....	62.51
Baldwin, Thomas Clinton, .....	Hahnemann Medical College, Philadelphia (2), .....	88.96
Baldentine, Percy L., .....	University of Maryland School of Medicine, Balt. (1), .....	77.32
Ballard, Mahlon B., .....	University of Pennsylvania (1), .....	80.61
Barr, Andrew Martin, .....	Hahnemann Medical College, Philadelphia (2), .....	83.30
Behane, Jeremiah, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.86
Behm, John Strickler, .....	Royal College of Physicians and Surgeons, Ireland (1), .....	86.81
Benscoter, Perry Hubler, .....	Hahnemann Medical College, Philadelphia (2), .....	83.70
Benson, Jr., Frank Colgate, .....	Jefferson Medical College, Philadelphia (1), .....	79.96
Berry, Edward Stanley, .....	Hahnemann Medical College, Philadelphia (2), .....	88.87
Betz, George Washington, .....	University of Pennsylvania (1), .....	92.29
Bohn, Daniel, .....	University of Pennsylvania (1), .....	92.29
Boone, George Hughes, .....	Hahnemann Medical College, Philadelphia (2), .....	87.60
Bradley, William Nathaniel, .....	Hahnemann Medical College, Philadelphia (2), .....	86.10
	University of Pennsylvania (1), .....	86.13

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1894:</b>		
Brewster, Benjamin Harris,	Western Pennsylvania Medical College, Pittsburgh (1),	82.89
Bricker, McCurdy,	Medical College of Indiana, Indianapolis (1),	86.15
Brinton, Ward,	Jefferson Medical College (1),	88.09
Brierly, F. Walter,	Hahnemann Medical College, Philadelphia (2),	82.50
Brower, Charles J.,	Jefferson Medical College (1),	87.46
Brown, William Harvey,	Hahnemann Medical College, Chicago (2),	82.50
Bryant, William Cullen,	Western Pennsylvania Medical College, Pittsburgh (1),	93.09
Bunting, Josiah T.,	University of Pennsylvania (1),	82.25
Bunnell, W. O.,	Eclectic Medical Institute, Cincinnati, O. (3),	93.37
Burns, Richard George,	Western Pennsylvania Medical College, Pittsburgh (1),	86.07
Burke, Patrick F.,	Jefferson Medical College (1),	75.04
Burns, Edward Ward,	College of P. and S., New York, N. Y. (1),	78.47
Butler, Margaret Frances,	Woman's Medical College of Pennsylvania (1),	85.50
Eutt, Miriam M.,	Woman's Medical College of Pennsylvania (1),	85.61
Buttermore, Virginia,	Woman's Medical College of Pennsylvania (1),	75.75
	Baltimore Medical College, Baltimore, Md. (1),	74.43
	Jefferson Medical College (1),	57.93
<b>1895:</b>		
Babb, Walter Milton,	University of Pennsylvania (1),	88.39
Bacas, Henry,	Jefferson Medical College (1),	77.75
Bacon, Anna L.,	Woman's Medical College of Pennsylvania (1),	78.08
Bacon, Harry A.,	Medico-Chirurgical College, Philadelphia (1),	85.76
Bailey, William J.,	University of Pennsylvania (1),	86.18
Bair, John William,	Western Pennsylvania Medical College, Pittsburgh (1),	90.08
Barris, Willis Ludlow,	Hahnemann Medical College, Philadelphia (2),	85.30
Bainbridge, Jr., Ben'j H.,	Hahnemann Medical College, Philadelphia (2),	85.40
Baker, Fred L.,	Medico-Chirurgical College, Philadelphia (1),	85.56
Baker, Albert James,	Baltimore Medical College, Baltimore, Md. (1),	83.96
Barnes, William Allen,	Hahnemann Medical College, Philadelphia (2),	75.00
Barnett, Robert Thomas,	University of Pennsylvania (1),	87.87
Barrett, Thomas,	University of Michigan, Ann Arbor (1),	73.25
Barrett, Thomas,	University of Pennsylvania (1),	84.14
Bartholomew, Haywood Bert,	Rush Medical College, Chicago (1),	83.94
Beardwood, Jr., Matthew,	Western Pennsylvania Medical College, Pittsburgh (1),	63.07
Beach, James Daniel,	Medico-Chirurgical College, Philadelphia (1),	84.86
Bentley, J. Irving,	Jefferson Medical College (1),	84.71
Berryhill, William G.,	University of Pennsylvania (1),	80.90
Bessley, Herman,	Baltimore Medical College, Baltimore, Md. (1),	81.40
Bickel, Samuel Davis,	University of Pennsylvania (1),	75.04
Bickley, George Henry,	Hahnemann Medical College, Philadelphia (2),	75.30
Bingaman, Edwin M.,	Jefferson Medical College (1),	84.90
Bird, Arthur Judson,	Jefferson Medical College (1),	88.68
Bishop, John S.,	University of the South, Sewanee, Tenn. (1),	84.80
Blackburn, Ida E.,	University of Pennsylvania (1),	82.97
Blanchard, George A.,	Woman's Medical College of Pennsylvania (1),	90.94
Blankenbuehler, John H.,	University of Pennsylvania (1),	85.21
Boal, George Fay,	Western Pennsylvania Medical College, Pittsburgh (1),	87.65
Boggs, William H.,	University of Maryland School of Medicine, Balt. (1),	73.58
Booth, Arthur Woodward,	Western Pennsylvania Medical College, Pittsburgh (1),	80.54
Borsch, George H.,	Baltimore University School of Medicine (1),	75.07
Bower, E. Ziegler,	University of Pennsylvania (1),	86.04
Boyd, Irwin H.,	Medico-Chirurgical College, Philadelphia (1),	75.39
Boyle, Frank M.,	University of Pennsylvania (1),	82.90
Bradley, David Cameron,	Medico-Chirurgical College, Philadelphia (1),	95.58
Brancht, Harvey S.,	University of Pennsylvania (1),	78.56
Brewer, Mary,	University of Pennsylvania (1),	87.20
Briney, H. A.,	University of Pennsylvania (1),	88.01
Brobst, Daniel Reuben,	New York Med. Col. and Hospital for Women, N. Y. (2),	95.00
Brooks, Allen Colby,	Western Pennsylvania Medical College, Pittsburgh (1),	78.04
Brown, George Lancaster,	Jefferson Medical College (1),	79.71
Brown, Harry M.,	Jefferson Medical College (1),	85.83
Bruner, Harry Butler,	Baltimore Medical College, Baltimore, Md. (1),	80.06
Bryant, Frank G.,	University of Pennsylvania (1),	88.50
Bucher, Frederick C.,	College of P. & S. Baltimore (1),	83.71
Bull, William H. H.,	College of P. & S. Baltimore (1),	82.71
Burke, Richard D.,	University of Pennsylvania (1),	90.94
Burkhard, Edwin D.,	Pulte Medical College, Cincinnati, Ohio (2),	80.80
Burns, Harry B.,	Jefferson Medical College (1),	87.66
Buterbaugh, Howard B.,	University of Pennsylvania (1),	89.44
Butler, William J.,	Bellevue Hospital Medical College, New York, N. Y. (1),	80.93
	College of P. & S. Baltimore (1),	66.44
	Western Reserve University, Cleveland, Ohio (1),	85.88
	Long Island College Hospital, Brooklyn, N. Y. (1),	76.77
	College of P. and S., Baltimore (1),	70.64
<b>1896:</b>		
Bachman, Jr., Carl F.,	Jefferson Medical College (1),	89.96
Bailey, Louis J. C.,	University of Michigan, Ann Arbor (1),	78.64
Bailey, Mark Leon,	University of the City of New York, N. Y. (1),	78.36
Baird, William Chalmers,	University of the City of New York, N. Y. (1),	74.61
Barlow, Louis Eugene,	Medico-Chirurgical College, Philadelphia (1),	84.19
Barney, Elfred Rowe,	Jefferson Medical College (1),	84.63
Bashore, Simeon David,	University of Michigan, Ann Arbor (1),	78.49
	Jefferson Medical College (1),	86.71

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1896:</b>		
Bauer, John Nathan, .....	Jefferson Medical College (1), .....	78.08
Bauman, Joseph Warren, .....	University of Pennsylvania (1), .....	81.84
Beattie, John, .....	Royal College of Surgeons, Dublin, Ireland (1), .....	71.83
Becker, Alfred Nauman, .....	University of Pennsylvania (1), .....	86.81
Bell, G. Franklin, .....	Jefferson Medical College (1), .....	78.96
Bertolet, John Marshall, .....	College of P. and S., Baltimore (1), .....	83.09
Berk, John K., .....	Western Pennsylvania Medical College (1), .....	65.71
Biddle, Jesse Taylor, .....	Jefferson Medical College (1), .....	78.83
Black, Jesse L., .....	Jefferson Medical College (1), .....	83.20
Blackburn, Albert E., .....	Chicago Homeopathic Medical College (2), .....	77.96
Blackburn, Edwin Clyde, .....	Jefferson Medical College (1), .....	87.63
Blair, James Edward, .....	Medico-Chirurgical College, Philadelphia (1), .....	88.87
Bolts, Elias Kliner, .....	Hahnemann Medical College, Philadelphia (2), .....	77.28
Borger, Joseph Jacob, .....	University of Pennsylvania (1), .....	86.23
Boston, Leonard Napoleon, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	67.44
Boucek, Charles Frank, .....	Jefferson Medical College (1), .....	86.08
Boyer, Merle S., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	48.87
Brick, Joseph Coles, .....	Jefferson Medical College (1), .....	81.28
Brisley, John Joseph, .....	Medico-Chirurgical College, Philadelphia (1), .....	86.78
Brister, Fred Elmer, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	86.30
Brooke, John Alfred, .....	Medico-Chirurgical College, Philadelphia (1), .....	84.81
Brown, John Phillip, .....	Jefferson Medical College (1), .....	86.96
Brown, Michael Joseph, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.83
Brown, Prentiss Agnew, .....	Jefferson Medical College (1), .....	83.12
Brown, John William, .....	Hahnemann Medical College, Philadelphia (2), .....	83.28
Brunner, Henry Clay, .....	Baltimore University School of Medicine (1), .....	77.60
Bryant, F. Otis, .....	Jefferson Medical College (1), .....	87.87
Bucher, William H., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.34
Buck, Matilda, .....	Medico-Chirurgical College, Philadelphia (1), .....	79.71
Bullitt, Jr., John Christian, .....	Jefferson Medical College (1), .....	77.83
Bullitt, Jr., John Christian, .....	University of Pennsylvania (1), .....	87.60
Bullitt, Jr., John Christian, .....	Medico-Chirurgical College, Philadelphia (1), .....	89.60
Bullitt, Jr., John Christian, .....	Royal College of Surgeons, Dublin, Ireland (1), .....	64.56
Bullitt, Jr., John Christian, .....	University of Michigan, Ann Arbor (1), .....	85.13
Bullitt, Jr., John Christian, .....	University of Pennsylvania (1), .....	76.19
<b>1897:</b>		
Babcock, Levis Clement, .....	Medico-Chirurgical College, Philadelphia (1), .....	83.84
Bailey, Levi M., .....	Jefferson Medical College (1), .....	76.14
Bair, Edward A., .....	University of Buffalo (1), .....	81.40
Baker, Everett Minner, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	76.82
Baker, Marcellus Harold, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.44
Baker, Daniel Jenks, .....	Hahnemann Medical College, Philadelphia (2), .....	83.14
Balliet, John, .....	Royal Hungarian University, Budapest, Hungary (1), .....	77.83
Balliet, Calvin Joseph, .....	Jefferson Medical College (1), .....	79.36
Bail, Arthur William, .....	Hahnemann Medical College, Philadelphia (2), .....	86.14
Bardley, George Ashton, .....	University of Pennsylvania (1), .....	86.80
Barkley, John Westley, .....	Jefferson Medical College (1), .....	79.00
Barnd, Franklin Pierce, .....	Jefferson Medical College (1), .....	77.71
Barnhardt, Harry A., .....	Medico-Chirurgical College, Philadelphia (1), .....	81.76
Barr, William Forse, .....	Jefferson Medical College (1), .....	86.87
Barton, Clyde Edwin, .....	Hahnemann Medical College, Philadelphia (2), .....	85.96
Barton, Henry Clay, .....	Jefferson Medical College (1), .....	79.09
Baum, Simon, .....	University of Pennsylvania (1), .....	87.11
Becker, Edwin Isaac, .....	Cincinnati College of M. and S. (1), .....	70.30
Bell, Harry Albert, .....	Jefferson Medical College (1), .....	77.23
Berg, Gustav Fredrick, .....	University of Pennsylvania (1), .....	89.04
Biddle, Philip George, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.60
Bieder, Charles Christian, .....	Jefferson Medical College (1), .....	80.78
Bierer, William John, .....	University of Pennsylvania (1), .....	89.88
Bigelow, William Sanford, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.97
Bigger, William Martin, .....	Baltimore Medical College, Baltimore, Md. (1), .....	69.36
Biggs, Montgomery Herman, .....	New York Hom. Med. College and Hospital, N. Y. (2), .....	75.48
Black, Joseph F., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.14
Black, Samuel McCune, .....	University of Pennsylvania (1), .....	86.40
Blakeslie, Albert Wellington, .....	Medico-Chirurgical College, Philadelphia (1), .....	76.37
Blumberg, Solomon, .....	Western Pennsylvania Medical College (1), .....	76.23
Boale, John Archibald, .....	University of Pennsylvania (1), .....	83.49
Boggs, Russell Herbert, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.24
Boggs, William Benjamin, .....	Imperial University of Warsaw, Poland (1), .....	80.47
Bolton, Earle William, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	87.47
Boon, William Thomas, .....	Hahnemann Medical College, Philadelphia (2), .....	77.59
Bovard, Forrest Johnson, .....	Jefferson Medical College (1), .....	86.71
Bowman, Frank Steck, .....	University of Pennsylvania (1), .....	87.10
Brackett, William W., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.07
Bradford, Claude Lee, .....	Jefferson Medical College (1), .....	64.67
Brady, Harry, .....	Jefferson Medical College (1), .....	83.29
Breneman, William Edgar, .....	Medico-Chirurgical College, Philadelphia (1), .....	86.63
Brophy, John Andrew, .....	Jefferson Medical College (1), .....	79.76
Brown, David Albert, .....	Medico-Chirurgical College, Philadelphia (1), .....	78.72
Brown, Elmer Ellsworth, .....	Medical-Chirurgical College, Philadelphia (1), .....	80.27
Brown, Elmer Ellsworth, .....	Jefferson Medical College (1), .....	78.40
Brown, Elmer Ellsworth, .....	Jefferson Medical College (1), .....	73.08
Brown, Elmer Ellsworth, .....	Medico-Chirurgical College, Philadelphia (1), .....	80.08
Brown, Elmer Ellsworth, .....	Jefferson Medical College (1), .....	88.80
Brown, Elmer Ellsworth, .....	Jefferson Medical College (1), .....	81.84

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1897:</b>		
.....	Western Pennsylvania Medical College, Pittsburgh (1),	72.15
.....	Washington University, Baltimore, Md. (1),	84.85
Brown, Henry Harold, .....	University of Pennsylvania (1),	82.97
.....	Cleveland University of M. and S. (2),	72.57
Brungard, Otis Daniel, .....	Western Pennsylvania Medical College, Pittsburgh (1),	88.60
Bucher, Helster, .....	University of Pennsylvania (1),	84.84
Buckley, Albert Coulson, .....	Medico-Chirurgical College, Philadelphia (1),	87.00
Burgess, Margaret Elizabeth, .....	Hering Medical College and Hospital, Chicago (3),	87.09
Burke, John Grant, .....	Western Pennsylvania Medical College, Pittsburgh (1),	86.02
Burkhart, Ephraim J., .....	Western Pennsylvania Medical College, Pittsburgh (1),	82.02
Buvinger, Charles I., .....	Western Pennsylvania Medical College, Pittsburgh (1),	84.92
.....	Cincinnati College of M. and S. (1),	78.15
.....	Baltimore Medical College, Baltimore, Md. (1),	64.94
<b>1894:</b>		
.....	Hahnemann Medical College, Philadelphia (3),	72.10
Carna, Daniel Hurst, .....	Western Pennsylvania Medical College, Pittsburgh (1),	78.34
Carter, Woodward D., .....	Hahnemann Medical College, Philadelphia (2),	84.10
Cattron, Addison E., .....	Cleveland Medical College, Cleveland, O. (2),	78.10
Christy, Mary Eliza, .....	Woman's Medical College of Pennsylvania (1),	82.61
Clark, Bennington F. R., .....	University of Pennsylvania (1),	82.11
Clemenston, William A., .....	Jefferson Medical College (1),	84.94
Clewell, Clarence Henry, .....	Jefferson Medical College (1),	81.95
Cocklin, Charles C., .....	University of Pennsylvania (1),	84.88
Codman, Charles A. E., .....	University of Pennsylvania (1),	80.82
Coons, Samuel Gamble, .....	Jefferson Medical College (1),	82.37
Cooper, Jesse Robert, .....	Western Pennsylvania Medical College, Pittsburgh (1),	85.29
Cooper, Ninian Joseph, .....	College of P. and S., Baltimore, Md. (1),	79.81
Cooper, William H., .....	Hahnemann Medical College, Philadelphia (3),	85.00
Corson, Percy Hellner, .....	University of Pennsylvania (1),	85.16
Cory, David Magil, .....	College of P. and S., New York, N. Y. (1),	75.62
.....	Western Pennsylvania Medical College, Pittsburgh (1),	70.09
Crane, William H., .....	University of Pennsylvania (1),	89.79
Crawford, Herbert P., .....	Jefferson Medical College (1),	81.74
Crawford, L. F., .....	Eclectic Medical Institute, Cincinnati, O. (3),	80.57
.....	Jefferson Medical College (1),	65.74
Crosby, Clinton Albert, .....	Cleveland Medical College, Cleveland, O. (2),	78.00
Crueger, Edward Adolph, .....	Medico-Chirurgical College, Philadelphia (1),	82.22
.....	Louisville Medical College, Louisville, Ky. (1),	82.97
Culin, William Davis, .....	Hahnemann Medical College, Philadelphia (3),	82.60
Currie, Thomas R., .....	University of Pennsylvania (1),	84.56
<b>1895:</b>		
.....	Western Pennsylvania Medical College, Pittsburgh (1),	74.87
Caldwell, Joseph C., .....	Western Pennsylvania Medical College, Pittsburgh (1),	78.74
Call, Hugh J., .....	University of Pennsylvania (1),	87.06
.....	Jefferson Medical College (1),	71.21
Cameron, William Oscar, .....	Western Reserve University, Cleveland, O. (1),	80.86
Campbell, Robert Benjamin, .....	Medico-Chirurgical College, Philadelphia (1),	78.43
Campbell, Duncan, .....	Hahnemann Medical College, Philadelphia (2),	78.10
Cornish, Mark H., .....	Hahnemann Medical College, Philadelphia (3),	75.00
Cornody, Robert F., .....	Georgetown Medical College, Washington, D. C. (1),	84.14
Carpenter, Mead Charles, .....	Western Pennsylvania Medical College, Pittsburgh (1),	82.11
Carroll, Charles J., .....	University of Pennsylvania (1),	81.42
Carr, George W., .....	Jefferson Medical College (1),	85.45
Chakaloff, George N., .....	University of Pennsylvania (1),	87.25
Clark, Oscar D. F., .....	Jefferson Medical College (1),	85.22
Clark, John W., .....	Medico-Chirurgical College, Philadelphia (1),	77.80
Clayton, Mary, .....	Cooper Medical College, San Francisco, Cal. (1),	82.84
Cleaver, Emma O., .....	Woman's Medical College, Pennsylvania (1),	85.79
Coburn, Elwyn Stevens, .....	Medico-Chirurgical College, Philadelphia (1),	81.17
Cochran, James Leeper, .....	Western Pennsylvania Medical College, Pittsburgh (1),	77.78
(Expelled)	College of P. and S., Baltimore, Md. (1),	87.07
Coe, Benjamin F., .....	College of P. and S., Baltimore, Md. (1),	80.90
Cogan, Jesse Franklin, .....	Baltimore Medical College, Baltimore, Md. (1),	75.20
Cole, David W., .....	Baltimore University School of Medicine (1),	79.79
Coley, Thomas L., .....	University of Pennsylvania (1),	85.00
Conard, George M., .....	Hahnemann Medical College, Philadelphia (1),	87.30
Conger, Frederic Garvin, .....	Western Pennsylvania Medical College, Pittsburgh (1),	85.20
Cook, William Jay, .....	Baltimore Medical College, Baltimore, Md. (1),	81.19
Cookman, Alfred, .....	Hahnemann Medical College, Philadelphia (3),	89.70
Corson, Elton Smith, .....	University of Pennsylvania (1),	82.85
Cooper, George M., .....	Hahnemann Medical College, Philadelphia (3),	81.80
Costello, Henry Joseph, .....	Jefferson Medical College (1),	84.47
Cotton, Ira H., .....	Western Pennsylvania Medical College, Pittsburgh (1),	79.71
Covel, Silas W., .....	Western Pennsylvania Medical College, Pittsburgh (1),	81.20
Cowperthwaite, Edwin G., .....	Hahnemann Medical College, Philadelphia (3),	86.60
Crankshaw, Charles W., .....	University of Pennsylvania (1),	81.48
Crawford, John Kinnier, .....	Jefferson Medical College (1),	80.09
.....	Kentucky School of Medicine, Louisville, Ky. (1),	89.22
Crowley, Joseph W., .....	University of Pennsylvania (1),	89.88
Crumrine, Clyde W., .....	Western Pennsylvania Medical College, Pittsburgh (1),	82.97
Cubbage, Samuel Thomas, .....	Jefferson Medical College (1),	87.92
.....	University of the City of New York, N. Y. (1),	69.72
Curry, William, .....	Jefferson Medical College (1),	81.77



## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1896:</b>		
Cameron, Hugh Angus, .....	Western Pennsylvania Medical College, Pittsburgh (1),	62.06
Campbell, Frank Scott, .....	Hahnemann Medical College, Philadelphia (2), .....	83.00
Campbell, Robert Addison, .....	Medico-Chirurgical College, Philadelphia (1), .....	73.07
Cardot, Cassius M., .....	College of P. and S., Baltimore, Md. (1), .....	80.27
Carlisle, Henry Lorain, .....	Western Pennsylvania Medical College (1), .....	70.26
Carr, John Dennis, .....	Western Pennsylvania Medical College, Pittsburgh (1),	76.00
Carter, Andrew D., .....	University of Pennsylvania (1), .....	78.29
Carmichael, Henry O., .....	Jefferson Medical College (1), .....	82.50
Cassady, A. Weymer, .....	University of Pennsylvania (1), .....	81.31
Casselberry, John Logan, .....	University of the South, Sewanee, Tenn. (1), .....	86.69
Castlebury, Frank Fulmer, .....	Bellevue Hospital Medical College, New York (1), .....	86.17
Catanach, Notman Guthrie, .....	Hahnemann Medical College, Philadelphia (2), .....	75.14
Child, Scott Parker, .....	Jefferson Medical College (1), .....	90.71
Christie, Milton H., .....	Jefferson Medical College (1), .....	85.66
Clark, Omer Clyde, .....	University of Pennsylvania (1), .....	79.93
Clark, J. Julius, .....	University of Wooster, Cleveland, O. (1), .....	75.17
Clark, James C. D., .....	Western Pennsylvania Medical College, Pittsburgh (1),	85.23
Clark, William Blaine, .....	University of Pennsylvania (1), .....	76.57
Clarke, Thomas Walter, .....	Tufts College Medical School, Mass. (1), .....	81.26
Clauser, Harry Simon, .....	Chicago Medical University (1), .....	78.33
Cleaver, Kimber R., .....	Hahnemann Medical College, Philadelphia (2), .....	82.57
Clewell, William Henry, .....	Jefferson Medical College (1), .....	75.13
Cochran, Alfred W., .....	Medico-Chirurgical College, Philadelphia (1), .....	81.50
Cochouer, F. H., .....	Medico-Chirurgical College, Philadelphia (1), .....	82.17
Collins, Allen Bennett, .....	Western Pennsylvania Medical College, Pittsburgh (1),	66.93
Collins, Howard Austin, .....	Medico-Chirurgical College, Philadelphia (1), .....	87.89
Collins, Ella J., .....	Jefferson Medical College (1), .....	81.49
Comstock, William C., .....	Cleveland Medical College, Cleveland, O. (2), .....	85.71
Conn, Frederick A. W., .....	Jefferson Medical College (1), .....	77.26
Cooper, Edwin B., .....	Cleveland Medical College, Cleveland, O. (2), .....	84.23
Coover, Joseph Claude, .....	Hahnemann Medical College, Philadelphia (2), .....	90.85
Corrigan, John Joseph, .....	Jefferson Medical College (1), .....	83.87
Corson, George R. S., .....	Western Pennsylvania Medical College, Pittsburgh (1),	73.69
Costello, Michael J., .....	Western Pennsylvania Medical College, Pittsburgh (1),	78.14
Cowden, John Victor, .....	Medico-Chirurgical College, Philadelphia (1), .....	75.64
Cowden, William Rush, .....	Jefferson Medical College (1), .....	85.44
Cramer, Morgan Joseph, .....	Jefferson Medical College (1), .....	86.16
Cressinger, John B., .....	Medico-Chirurgical College, Philadelphia (1), .....	77.69
	Western Pennsylvania Medical College, Pittsburgh (1),	81.87
	Western Pennsylvania Medical College, Pittsburgh (1),	82.17
	Western Pennsylvania Medical College, Pittsburgh (1),	73.43
	Western Pennsylvania Medical College, Pittsburgh (1),	72.41
	Western Pennsylvania Medical College, Pittsburgh (1),	75.14
	University of Pennsylvania (1), .....	90.73
	Cleveland University of M. and S. (2), .....	55.85
	Western Pennsylvania Medical College, Pittsburgh (1),	83.56
	Western Pennsylvania Medical College, Pittsburgh (1),	67.43
<b>1897:</b>		
Calhoun, John Charles, .....	Cleveland Medical College (2), .....	57.43
Campbell, George, .....	University of Pennsylvania (1), .....	86.37
Campbell, William R., .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	83.00
Campbell, Willard B., .....	Baltimore Medical College, Baltimore, Md. (1), .....	76.67
	Medico-Chirurgical College, Philadelphia (1), .....	72.64
Cary, John Herschel, .....	Jefferson Medical College (1), .....	86.86
Casselberry, Clarence M., .....	University of Pennsylvania (1), .....	76.72
Caven, William A., .....	University of Naples, Italy (1), .....	54.57
Chestnut, James C., .....	Western Pennsylvania Medical College, Pittsburgh (1),	82.42
Christy, Daniel, .....	University of Pennsylvania (1), .....	91.02
Clark, Edward Perry, .....	Cleveland Medical College (2), .....	83.26
Clemons, Thomas J., .....	Western Pennsylvania Medical College, Pittsburgh (1),	73.12
	Hahnemann Medical College, Philadelphia (2), .....	92.00
	Medico-Chirurgical College, Philadelphia (1), .....	73.87
	Western Pennsylvania Medical College, Pittsburgh (1),	73.80
	Western Pennsylvania Medical College, Pittsburgh (1),	71.52
	Jefferson Medical College (1), .....	80.34
	University of Pennsylvania (1), .....	82.94
	Jefferson Medical College (1), .....	88.36
	College of P. & S., Baltimore, Md. (1), .....	75.31
	Jefferson Medical College (1), .....	75.94
	Medico-Chirurgical College, Philadelphia (1), .....	83.49
	Jefferson Medical College (1), .....	83.09
	Jefferson Medical College (1), .....	87.63
	Medico-Chirurgical College, Philadelphia (1), .....	81.79
	Jefferson Medical College (1), .....	78.53
	Western Pennsylvania Medical College, Pittsburgh (1),	75.33
	Western Pennsylvania Medical College, Pittsburgh (1),	75.40
	Jefferson Medical College (1), .....	84.52
	Western Pennsylvania Medical College, Pittsburgh (1),	77.12
	Cleveland University of M. & S. (2), .....	63.14
	University of Naples, Italy (1), .....	67.43
	Western Pennsylvania Medical College, Pittsburgh (1),	70.44
	University of Naples, Italy (1), .....	70.59
	Cleveland University of M. and S. (2), .....	65.43
<b>1894:</b>		
Davis, Adam Clarke, .....	College of P. and S., Chicago (1), .....	59.91
	Western Pennsylvania Medical College, Pittsburgh (1),	84.34

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1894:</b>		
Dawson, Robert Burnside, .....	Western Reserve University, Cleveland, O. (1), .....	77.88
Deemer, Sanford Junius, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	78.08
Dillinger, Gregg Arthur, .....	University of Pennsylvania (1), .....	86.21
Dock, Robert Garrett, .....	Hahnemann Medical College, Philadelphia (2), .....	78.10
Dougherty, Sherborne W., .....	University of Pennsylvania (1), .....	92.45
Drummond, Winslow, .....	University of Pennsylvania (1), .....	85.62
.....	Jefferson Medical College (1), .....	69.76
.....	Chicago Homeopathic Medical College (3), .....	68.40
<b>1895:</b>		
Dahis, George E., .....	Medico-Chirurgical College, Philadelphia (1), .....	82.65
Dale, John, .....	Columbian University, Washington, D. C. (1), .....	82.01
Dale, Wallace H., .....	College of P. and S., Baltimore, Md. (1), .....	83.80
(Withdrawn), .....	Jefferson Medical College (1), .....	.....
Davies, Frederick Ambrose, .....	Chicago Homeopathic Medical College (2), .....	86.80
Davis, Charles Wesley, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.80
Davis, Harry Hibert, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.78
Davis, John McMillin, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.25
Davis, John H., .....	Cleveland University of M. and S. (2), .....	76.00
Dean, Thomas Norvelle, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	94.44
Deacon, Edward Magee, .....	Hahnemann Medical College, Philadelphia (2), .....	86.00
Dechert, Harry William, .....	University of Pennsylvania (1), .....	86.78
Deemer, Walter L., .....	Baltimore University School of Medicine (1), .....	78.16
.....	Baltimore University School of Medicine (1), .....	72.30
Denis, Louis Alexandre, .....	University of Pennsylvania (1), .....	86.21
Denner, Frances, .....	Woman's Medical College of Pennsylvania (1), .....	82.85
Dewitt, John Henry, .....	Jefferson Medical College (1), .....	78.69
.....	Woman's Medical College of Pennsylvania (1), .....	42.25
Dexter, Henry Leone, .....	Jefferson Medical College (1), .....	81.84
Diefenderfer, Harold, .....	University of Pennsylvania (1), .....	84.92
Diefenderfer, Samuel A., .....	Hahnemann Medical College, Philadelphia (2), .....	80.30
Diemer, Louis M., .....	Hahnemann Medical College, Philadelphia (2), .....	91.00
.....	Jefferson Medical College (1), .....	64.00
Dill, George M., .....	University of Pennsylvania (1), .....	82.83
Dodds, Joseph Beattie, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.24
Donaldson, Harry J., .....	University of Pennsylvania (1), .....	89.26
Donoghue, Robert L., .....	University of Pennsylvania (1), .....	89.26
Downs, Jr., Robert Norton, .....	University of Pennsylvania (1), .....	86.64
Drake, Ellwood L., .....	University of Pennsylvania (1), .....	80.88
Duncan, Homer Graham, .....	Jefferson Medical College (1), .....	87.53
Duncan, Joseph L., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	86.64
Dunn, Rose M., .....	Woman's Medical College of Pennsylvania (1), .....	79.50
Dunkel, Edwin K., .....	Jefferson Medical College (1), .....	89.71
<b>1896:</b>		
Dandois, George Franklin, .....	Jefferson Medical College (1), .....	93.12
.....	Baltimore Medical College, Baltimore, Md. (1), .....	60.69
Davies, Lemuel E., .....	Hahnemann Medical College, Philadelphia (2), .....	75.71
Davis, William T., .....	University of Pennsylvania (1), .....	79.37
Davison, William F., .....	Jefferson Medical College (1), .....	76.80
Deardorff, William Henry, .....	Jefferson Medical College (1), .....	85.74
Decker, VanCleft, .....	Jefferson Medical College (1), .....	83.31
DeLong, William Edward, .....	University of the South, Sewanee, Tenn. (1), .....	75.47
Denslow, Walter Brinton, .....	University of Pennsylvania (1), .....	89.94
Dingee, William Henry, .....	University of Pennsylvania (1), .....	86.17
Dippell, Ernst Theodore, .....	Jefferson Medical College (1), .....	78.37
Donaldson, John Speer, .....	Jefferson Medical College (1), .....	79.62
Donnelly, James F., .....	Medico-Chirurgical College, Philadelphia (1), .....	77.14
Dornisfe, Ulysses Edward, .....	Jefferson Medical College (1), .....	83.17
.....	Jefferson Medical College (1), .....	72.69
Douglass, John Allen, .....	Hahnemann Medical College, Philadelphia (2), .....	88.28
Dowling, Charles E., .....	Jefferson Medical College (1), .....	75.64
Doyle, William Francis, .....	Hahnemann Medical College, Philadelphia (2), .....	92.42
Drum, John Marcellus, .....	Hahnemann Medical College, Philadelphia (2), .....	88.71
.....	Jefferson Medical College (1), .....	73.19
Dubinsky, Simon, .....	University of Berne, Switzerland (1), .....	81.91
Dugan, William James, .....	Jefferson Medical College (1), .....	85.14
Dunn, Paul B., .....	University of Pennsylvania (1), .....	86.07
Durham, James Richard, .....	Trinity University, Toronto, Ontario, Canada (1), .....	72.67
.....	Hahnemann Medical College, Philadelphia (2), .....	64.71
<b>1897:</b>		
Daly, Katharine L., .....	Jefferson Medical College (1), .....	72.30
.....	Woman's Medical College, Baltimore, Md. (1), .....	76.17
Davis, Jr., William T., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	61.79
Davis, Walter, .....	Medico-Chirurgical College, Philadelphia (1), .....	79.85
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	62.97
Davis, Alden Otlice, .....	University of Pennsylvania (1), .....	89.63
Davis, Frederick Whitney, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	69.23
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.94
Dean, John Colton, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	72.30
Dehoff, John Edmund, .....	University of Pennsylvania (1), .....	78.73
DeMuth, Jesse Smith, .....	Southern Hom. Med. College, Baltimore, Md. (2), .....	97.28
Dick, Christopher Cyrus, .....	Bellevue Hospital Medical College, New York (1), .....	82.03
.....	College of P. and S., Baltimore, Md. (1), .....	81.82

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1897:</b>		
Dinger, Reuben Escher, ....	Western Pennsylvania Medical College, Pittsburgh (1),	78.69
Dobson, Clarence Henry, ....	Hahnemann Medical College, Philadelphia (2),	86.57
Donnelly, Peter, .....	Jefferson Medical College (1),	82.36
Douglas, Fullerton Johnson, .....	Hahnemann Medical College, Philadelphia (2),	89.14
Dowler, William Irvin, .....	Western Pennsylvania Medical College, Pittsburgh (1),	22.00
Doyle, Frank Moore, .....	Western Pennsylvania Medical College, Pittsburgh (1),	81.89
Doyle, John James, .....	Western Pennsylvania Medical College, Pittsburgh (1),	77.54
Doyle, Paul Boynton, .....	Jefferson Medical College (1),	85.32
Dranga, Amelia Angenia, ....	Western Pennsylvania Medical College, Pittsburgh (1),	78.24
.....	Woman's Medical College of Pennsylvania (1),	87.73
.....	Western Pennsylvania Medical College, Pittsburgh (1),	64.54
.....	Western Pennsylvania Medical College, Pittsburgh (1),	81.83
Duenas, Joaquin L., .....	University of Havana (1),	85.54
.....	Western Pennsylvania Medical College, Pittsburgh (1),	64.10
Dunkle, Gally Barr, .....	Jefferson Medical College (1),	81.06
Dunn, Joseph C., .....	Eclectic Medical Institute, Cincinnati, O. (2),	83.14
<b>1894:</b>		
Eaches, William DeHaven, .....	Hahnemann Medical College, Philadelphia (2),	89.70
Eckert, Jacob Wilson, .....	Jefferson Medical College (1),	76.44
Edwards, George M., .....	Jefferson Medical College (1),	86.72
Enfield, Walter F., .....	Medico-Chirurgical College, Philadelphia (1),	91.21
<b>1896:</b>		
Earhart, Charles H., .....	University of Pennsylvania (1),	87.79
Eaton, William Bradford, ....	Woman's Medical College of Pennsylvania (1),	73.79
Ewing, Randal R., .....	University of Berlin, Germany (1),	86.61
.....	Cleveland Medical College, Cleveland, O. (2),	77.00
<b>1896:</b>		
Earsman, John S., .....	Western Pennsylvania Medical College, Pittsburgh (1),	78.06
Easton, John S., .....	College of P. and S., New York, N. Y. (1),	86.30
Elliott, Andrew Henry, ....	Jefferson Medical College (1),	85.36
Elliott, Frederick B., .....	Western Pennsylvania Medical College, Pittsburgh (1),	78.43
Elzey, James Murray, .....	Medical College of Virginia, Richmond (1),	80.83
Ely, George Winfried, .....	Bollevue Hospital Medical College, New York, N. Y. (1),	37.65
Emerick, Martin Luther, .....	Jefferson Medical College (1),	82.19
Emery, William Harland, .....	University of Pennsylvania (1),	75.31
Emmert, Edward J., .....	Miami Medical College, Cincinnati, Ohio (1),	83.21
Erdman, William S., .....	Medico-Chirurgical College, Philadelphia (1),	80.86
Erhard, Ernest Lewis, .....	Western Pennsylvania Medical College, Pittsburgh (1),	85.10
Everitt, Martha S., .....	Woman's Medical College of Pennsylvania (1),	85.86
Ewing, William Beer, .....	Western Pennsylvania Medical College (1),	79.24
.....	Cleveland Medical College, Cleveland, O. (2),	63.71
.....	Hahnemann Medical College, Philadelphia (2),	63.14
<b>1897:</b>		
Eagleson, Robert M., .....	Western Pennsylvania Medical College, Pittsburgh (1),	83.16
Edger, Jr. Benjamin Jones, .....	University of Pennsylvania (1),	91.70
Edwards, John Wesley, .....	University of Pennsylvania (1),	84.26
Edwards, Harold Romney, .....	Hahnemann Medical College, Philadelphia (2),	83.57
Edwards, Jr. Ogden M., .....	College of P. and S., New York, N. Y. (1),	84.96
Eicher, Charles Grant, .....	Western Pennsylvania Medical College, Pittsburgh (1),	87.83
Ekwursel, George Macy, ....	University of Pennsylvania (1),	78.87
Ericsson, Bror Otto, .....	Jefferson Medical College (1),	77.00
.....	Baltimore Medical College, Baltimore, Md. (1),	74.03
Evans, Stuart, .....	Jefferson Medical College (1),	76.74
Evans, Howard James, .....	Hahnemann Medical College, Philadelphia (2),	84.71
Ewing, Alfred Eugene, .....	Cleveland Medical College, Cleveland, O. (2),	82.00
.....	University of Pennsylvania (1),	67.40
<b>1894:</b>		
Faddis, Thomas McClellan, .....	Jefferson Medical College (1),	76.48
Faust, Albert David, .....	Jefferson Medical College (1),	83.57
Fehr, Howard A., .....	Hahnemann Medical College, Philadelphia (2),	84.00
Fellman, Morris W., .....	University of Pennsylvania (1),	91.03
Finkelparl, Henry, .....	Western Pennsylvania Medical College, Pittsburgh (1),	77.55
Fitzpatrick, William J., .....	University of Pennsylvania (1),	91.79
Fitz-Gerald, David E., ....	Hahnemann Medical College, Philadelphia (2),	78.50
Flegal, Irwin Scott, .....	Western Pennsylvania Medical College, Pittsburgh (1),	83.50
Fleming, Thomas Joseph, .....	University of Pennsylvania (1),	90.02
Fly, Edward Monroe, .....	Jefferson Medical College (1),	87.29
Foehrenbach, Julius E., ....	Jefferson Medical College (1),	91.29
Foster, John, .....	Western Pennsylvania Medical College, Pittsburgh (1),	78.19
Fredericks, David F., .....	Jefferson Medical College (1),	87.00
Fries, Charles J. V., .....	Hahnemann Medical College, Philadelphia (2),	82.30
Fritz, William Wallace, .....	Medico-Chirurgical College, Philadelphia (1),	78.81
Frisbie, Hiram Zebulon, ....	Jefferson Medical College (1),	83.61
Fronts, Howard Clinton, .....	University of Pennsylvania (1),	86.53
Fulton, A. M. W., .....	Eclectic Medical Institute, Cincinnati, O. (2),	95.29
.....	Homeopathic Medical College, Baltimore, Md. (2),	73.60
<b>1896:</b>		
Farles, Clarence T., .....	Medico-Chirurgical College, Philadelphia (1),	84.93
Farquhar, George W., .....	University of Pennsylvania (1),	87.31
Felt, Carle Lee, .....	University of Pennsylvania (1),	84.19

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1895:</b>		
Ferris, Francis Scoffin, .....	University of Pennsylvania (1), .....	86.54
Fetter, Eugene C., .....	University of Pennsylvania (1), .....	85.55
Finley, Francis Howard, .....	College of P. and S., Baltimore, Md. (1), .....	85.54
Fisher, Harry C., .....	University of Pennsylvania (1), .....	91.69
Fischer, John A., .....	Hahnemann Medical College (2), .....	88.60
Fitzgerald, William W., .....	Jefferson Medical College (1), .....	87.46
France, Peter Wilson, .....	University of Pennsylvania (1), .....	81.16
Franklin, Melvin M., .....	University of Pennsylvania (1), .....	87.90
Frankish, John Kirby, .....	Jefferson Medical College (1), .....	81.19
Frew, George W. H., .....	University of Pennsylvania (1), .....	87.30
Fritz, Clarence H., .....	University of Pennsylvania (1), .....	88.57
Furst, Robert Gardner, .....	University of Pennsylvania (1), .....	90.36
<b>1896:</b>		
Farrington, Harvey, .....	Jefferson Medical College (1), .....	69.33
Fay, Harvey Murrell, .....	Hahnemann Medical College, Philadelphia (2), .....	84.14
Filbert, Charles E., .....	Jefferson Medical College (1), .....	84.30
Fisher, George Singer, .....	University of Pennsylvania (1), .....	75.30
Fisher, Herbert P., .....	Hahnemann Medical College, Philadelphia (2), .....	90.00
Fleagle, Maurice Monroe, .....	University of Pennsylvania (1), .....	89.36
Fleckenstine, Horace, .....	Hahnemann Medical College, Philadelphia (2), .....	94.43
Fleming, James McIntire, .....	University of Pennsylvania (1), .....	78.73
Fletcher, Benjamin K., .....	Medico-Chirurgical College, Philadelphia (1), .....	79.60
Ford, Mary E., .....	Hahnemann Medical College, Philadelphia (2), .....	86.43
Expelled, .....	Boston University School of Med., Boston, Mass. (2), .....	87.14
Frank, Austin Cleis, .....	Jefferson Medical College (1), .....	86.73
Fraunkfelder, Jacob A., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.14
Frets, Alfred E., .....	Medico-Chirurgical College, Philadelphia (1), .....	85.01
<b>1897:</b>		
Faringer, Howard R., .....	University of Pennsylvania (1), .....	82.90
Farrell, John Aloysius, .....	Indiana Medical College, Indianapolis (1), .....	67.90
Fee, Elam Knott, .....	University of Pennsylvania (1), .....	72.29
Fife, Charles Andrew, .....	Jefferson Medical College (1), .....	83.34
Fish, Clyde M., .....	University of Pennsylvania (1), .....	84.63
Fleming, William John, .....	Indiana Medical College, Indianapolis (1), .....	58.56
Ford, Frank Albert, .....	Jefferson Medical College (1), .....	77.17
Forster, Milton Hugh, .....	Hahnemann Medical College, Philadelphia (2), .....	88.57
Forster, Arthur L. W., .....	University of Pennsylvania (1), .....	86.59
Fox, Carroll, .....	University of Pennsylvania (1), .....	87.83
Fox, George Hershey, .....	Hahnemann Medical College, Philadelphia (2), .....	87.28
Frank, Jr., William Love, .....	University of Pennsylvania (1), .....	86.41
Franklin Manuel Burnett, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.92
Fraser, Hugh Daniel, .....	Jefferson Medical College (1), .....	78.94
Frederick, Frank H., .....	Hahnemann Medical College, Philadelphia (2), .....	92.57
Frets, John Edgar, .....	Jefferson Medical College (1), .....	83.83
Frye, Daniel W., .....	Baltimore Medical College, Baltimore, Md. (1), .....	71.69
Funk, William Warren, .....	Jefferson Medical College (1), .....	83.43
<b>1898:</b>		
Gallbreath, J. Thomas, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	85.23
Gallagher, Joseph L., .....	University of Pennsylvania (1), .....	86.70
Galloway, Merrill J., .....	University of Pennsylvania (1), .....	85.70
Gann, George Willard, .....	Hahnemann Medical College, Philadelphia (2), .....	78.70
Garitee, Clarence John, .....	University of Pennsylvania (1), .....	86.42
Good, Albert Parke, .....	Jefferson Medical College (1), .....	78.25
Goodwin, James Robinson, .....	Medico-Chirurgical College, Philadelphia (1), .....	84.50
Gormley, James R., .....	Miami Medical College, Cincinnati, Ohio (1), .....	86.04
Gourley, Russell Crawford, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	76.09
Gray, Robert Bruce, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.73
Green, Edward Houghton, .....	Jefferson Medical College (1), .....	77.45
Griggs, William Bentley, .....	Hahnemann Medical College, Philadelphia (2), .....	90.70
<b>1899:</b>		
Gans, Sigmund Leon, .....	Woman's Medical College of Pennsylvania (1), .....	74.21
Garvin, Mary E., .....	University of Pennsylvania (1), .....	83.51
Gaskill, Sullivan A., .....	Woman's Medical College of Pennsylvania (1), .....	81.00
Gaub, Otto Carl, .....	Baltimore Medical College, Baltimore, Md. (2), .....	82.29
Gearhart, Sylvester C., .....	University of Pennsylvania (1), .....	95.54
Geer, Eugene D., .....	Jefferson Medical College (1), .....	81.11
Genert, Albert W., .....	Eclectic Medical Institute, Cincinnati, O. (2), .....	84.36
George, McLeod M., .....	Hahnemann Medical College, Philadelphia (2), .....	91.70
Gerson, F. Percival, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	76.91
Gilbert, John J., .....	University of Pennsylvania (1), .....	90.44
Gilbert, John J., .....	Jefferson Medical College (1), .....	85.29
Gilbride, John J., .....	University of Pennsylvania (1), .....	85.04
Gillespie, Martin S., .....	University of Pennsylvania (1), .....	79.40
Gillette, Claudius W., .....	Jefferson Medical College (1), .....	85.51
Gingrich, Edward Harry, .....	University of Pennsylvania (1), .....	91.73

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1886:</b>		
Gittings, J. Claxton, .....	University of Pennsylvania (1), .....	89.75
Glenn, Thomas O., .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	90.14
Gojanski, Kivel, .....	University of Paris, France (1), .....	90.51
.....	Cleveland University of M. and S. (2), .....	49.00
Gould, John Ernest, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.23
Graves, Charles Taylor, .....	University of Pennsylvania (1), .....	89.58
Greenfield, Arthur M., .....	Baltimore Medical College, Baltimore, Md. (3), .....	82.29
Griffin, Adelaide M., .....	Woman's Medical College, New York, N. Y. (1), .....	88.26
.....	Cleveland University of M. and S. (2), .....	65.30
<b>1886:</b>		
Gale, George Bancroft, .....	Medico-Chirurgical College, Philadelphia (1), .....	86.70
Gallager, Harry, .....	Jefferson Medical College (1), .....	89.21
Gamble, R. Bruce, .....	University of Buffalo, N. Y. (1), .....	90.26
Gardner, Frank Pierce, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	90.23
Gartman, Leo Noy, .....	Jefferson Medical College (1), .....	83.00
Garren, Jr., Albert W., .....	Jefferson Medical College (1), .....	78.50
Garvey, Thomas Quincy, .....	Georgetown Medical College, Washington, D. C. (1), .....	82.97
Gibby, Herbert B., .....	University of Pennsylvania (1), .....	90.77
Giberson, William Henry, .....	Jefferson Medical College (1), .....	80.74
Giffen, John Wilson, .....	Jefferson Medical College (1), .....	83.71
Gilbert, Levi Tarr, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	85.19
Gilpin, Sherman Fletcher, .....	Jefferson Medical College (1), .....	85.21
Golden, Henry Benjamin, .....	University of Pennsylvania (1), .....	83.97
Goodrich, Herbert Ross, .....	College of P. and S., New York, N. Y. (1), .....	72.30
Gordon, Benjamin Lee, .....	University of Pennsylvania (1), .....	83.13
Gorman, Silas Clark, .....	Jefferson Medical College (1), .....	82.93
Grace, Harry H., .....	Baltimore Medical College, Baltimore, Md. (1), .....	83.34
Gray, Alfred Percy, .....	Hahnemann Medical College, Philadelphia (2), .....	88.38
Gray, Levan Justus, .....	Jefferson Medical College (1), .....	92.51
Gray, Frederick Charles, .....	Miami Medical College, Cincinnati, Ohio (1), .....	82.36
Greaves, Blanche Fiscus, .....	Hahnemann Medical College, Philadelphia (2), .....	85.00
Gregory, Samuel, .....	Woman's Medical College of Pennsylvania (1), .....	76.53
Griggs, Joseph Franklin, .....	College of P. and S., Baltimore, Md. (1), .....	83.30
Gulick, Esther Wintermute, .....	University of Pennsylvania (1), .....	86.67
Gundy, Charles A., .....	Woman's Medical College of Pennsylvania (1), .....	76.00
.....	University of Pennsylvania (1), .....	81.94
<b>1887:</b>		
.....	College of P. and S., Baltimore, Md. (1), .....	61.68
.....	Medico-Chirurgical College, Philadelphia (1), .....	70.34
Gaggin, Verner Simpson, .....	New York Hom. Medical College, New York (3), .....	96.71
Gardner, E. Roy, .....	University of Pennsylvania (1), .....	82.54
Garthwaite, Isaac S., .....	University of Maryland, Baltimore, Md. (1), .....	78.97
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	55.50
Gavitt, Edward B., .....	Baltimore Medical College, Baltimore, Md. (1), .....	73.97
Geho, Ambrose Byron, .....	Baltimore Medical College, Baltimore, Md. (1), .....	85.24
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.04
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	54.92
.....	Baltimore Medical College, Baltimore, Md. (1), .....	73.89
Gile, Ben Clarke, .....	College of P. and S., New York, N. Y. (1), .....	69.61
Gilligan, James Patrick, .....	University of Pennsylvania (1), .....	84.35
Given, Ellis Edgar W., .....	College of P. and S., New York, N. Y. (1), .....	79.26
Godfrey, Andrew, .....	University of Pennsylvania (1), .....	82.58
Goldberger, Joseph, .....	Medico-Chirurgical College, Philadelphia (1), .....	77.54
Good, William Harmar, .....	Bellevue Hospital Medical College, New York (1), .....	88.50
Gordon, Altamont Lafayette, .....	Medico-Chirurgical College, Philadelphia (1), .....	85.71
Granger, John Charles, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.13
Gray, Earl Pontius, .....	Jefferson Medical College (1), .....	86.06
Grayson, Thomas Wray, .....	University of Pennsylvania (1), .....	85.16
Green, Howard Lee, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.64
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.43
.....	Jefferson Medical College (1), .....	78.29
.....	Baltimore University School of Medicine (1), .....	65.10
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	68.00
Groschner, Carl Brown, .....	Jefferson Medical College (1), .....	85.66
Grove, William Weaver, .....	Rush Medical College, Chicago, Ill. (1), .....	73.83
Guffey, Albert Andrew, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	85.31
Gunther, George P. A., .....	University of Pennsylvania (1), .....	76.82
<b>1884:</b>		
Hagenbuch, James Henry, .....	Jefferson Medical College (1), .....	77.13
Hall, Fred C., .....	Medico-Chirurgical College, Philadelphia (1), .....	87.54
Hammond, William, .....	University of Pennsylvania (1), .....	89.03
Hammond, Wilber C., .....	University of Pennsylvania (1), .....	90.64
Handrick, Frank A., .....	Jefferson Medical College (1), .....	85.24
Harris, Raymond J., .....	Hahnemann Medical College, Philadelphia (2), .....	90.30
Harvey, David Gaston, .....	Hahnemann Medical College, Philadelphia (2), .....	82.60
Hassler, Samuel Freeman, .....	Jefferson Medical College (1), .....	85.09
Hawkins, Vallandigham, .....	Baltimore Medical College, Baltimore, Md. (1), .....	82.33
Hayes, James Edward, .....	Medico-Chirurgical College, Philadelphia (1), .....	79.33
Hazel, Thomas Harold, .....	Jefferson Medical College (1), .....	86.90
Heard, James Louis, .....	University of Michigan, Ann Arbor (1), .....	90.54
Hemath, John, .....	University of Pennsylvania (1), .....	87.59
Herchelroth, Jacob Grant, .....	Medico-Chirurgical College, Philadelphia (1), .....	91.56
Hernance, W. Oakley, .....	University of Pennsylvania (1), .....	91.04
Hess, O. I., .....	Kentucky School of Medicine, Louisville, Ky. (1), .....	78.66
Hetrick, Caroline, .....	Woman's Medical College of Pennsylvania (1), .....	91.33

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1894:</b>		
Hickey, Thomas Bernard, ..	Jefferson Medical College (1), .....	91.23
High, Warren, E. G., .....	University of Pennsylvania (1), .....	94.65
Hillegas, William Muthard, ..	Hahnemann Medical College, Philadelphia (2), .....	92.80
Hill, Samuel Smith, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.25
Hodge, Emma Howell, .....	Woman's Medical College, New York, N. Y. (1), .....	83.47
Hodgens, Isaac Walter, .....	Jefferson Medical College (1), .....	75.90
Hodkinson, William Austin, ..	Western Pennsylvania Medical College, Pittsburgh (1), .....	91.99
Hoeffcker, Robert Crockett, ..	Jefferson Medical College (1), .....	86.03
.....	Hahnemann Medical College, Philadelphia (2), .....	73.10
Holmes, Robert E., .....	Eclectic Medical Institute, Cincinnati, O. (2), .....	86.67
Horan, William, .....	University of Pennsylvania (1), .....	87.28
.....	University of Louisville, Louisville, Ky. (1), .....	68.89
.....	University of Louisville, Louisville, Ky. (1), .....	67.18
Howard, Edward W. S., .....	Jefferson Medical College (1), .....	81.50
Howe, Abraham Lincoln, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.24
Huebner, Irwin Brey, .....	University of Pennsylvania (1), .....	80.53
Hunter, John Austin, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.89
<b>1895:</b>		
Haden, Henry Cooper, .....	University of Pennsylvania (1), .....	75.21
Hager, Albert Edwin, .....	Jefferson Medical College (1), .....	83.33
Haines, Franklin Gregg, .....	Baltimore Medical College, Baltimore, Md. (1), .....	85.37
Hain, Aaron Erastus, .....	University of the South, Sewanee, Tenn. (1), .....	76.21
Hammond, Frank Clinch, .....	Jefferson Medical College (1), .....	85.21
.....	Hahnemann Medical College, Chicago, Ill. (2), .....	73.80
Hammond, Hilton, .....	Hahnemann Medical College, Chicago, Ill. (2), .....	83.10
Hamilton, William Andrew, ..	University of Pennsylvania (1), .....	83.04
Hanlon, William J., .....	Medico-Chirurgical College, Philadelphia (1), .....	78.76
Hanna, George Carson, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.77
Hannan, William R., .....	University of Pennsylvania (1), .....	86.40
Hanlin, Samuel B., .....	Hahnemann Medical College, Philadelphia (2), .....	89.00
Harding, Ralph Arthur, .....	Columbian University, Washington, D. C. (1), .....	78.44
.....	Baltimore University School of Medicine (1), .....	62.71
Harris, Frank D., .....	University of Pennsylvania (1), .....	85.07
Hartman, Irvin H., .....	University of Pennsylvania (1), .....	84.43
Harvey, Edwin H., .....	University of Pennsylvania (1), .....	93.07
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.23
Hays, George L., .....	University of Pennsylvania (1), .....	84.71
.....	Baltimore University School of Medicine (1), .....	67.43
Heller, Edwin Abeles, .....	University of Pennsylvania (1), .....	88.30
Henry, John Norman, .....	University of Pennsylvania (1), .....	77.25
Henshall, J. Eastwood, .....	Hahnemann Medical College, Philadelphia (2), .....	75.10
Henyan, E. Lucas, .....	Jefferson Medical College (1), .....	81.09
Hess, Louis Thales, .....	Jefferson Medical College (1), .....	85.54
Hibshman, Walter S., .....	Medico-Chirurgical College, Philadelphia (1), .....	78.71
Higgins, Aubrey Francis, .....	University of Pennsylvania (1), .....	84.73
Higgins, Francis Joseph, .....	University of Pennsylvania (1), .....	82.97
Hildebrand, Robert Allen, .....	College of P. and S., Baltimore, Md. (1), .....	80.65
Himes, Bower Edwin, .....	Jefferson Medical College (1), .....	94.88
Hinshillwood, Henry, .....	Hahnemann Medical College, Philadelphia (2), .....	84.30
Hoffman, William Wallace, ..	Jefferson Medical College (1), .....	81.54
Holcomb, William B., .....	Hahnemann Medical College, Philadelphia (2), .....	92.23
Hollister, Charles Marvin, .....	University of Pennsylvania (1), .....	83.40
Hollingshead, Irving W., .....	University of Pennsylvania (1), .....	77.25
Hollowell, James, .....	Hahnemann Medical College, Philadelphia (2), .....	76.60
Hootman, David Albert, .....	University of the South, Sewanee, Tenn. (1), .....	77.66
Hoover, Percy Linn, .....	Jefferson Medical College (1), .....	82.97
Hornbeck, James Laubach, .....	University of Pennsylvania (1), .....	80.97
.....	University of Louisville, Louisville, Ky. (1), .....	60.30
Hornby, Walter Melvin, .....	Medico-Chirurgical College, Philadelphia (1), .....	87.69
Horner, Parker P., .....	University of Louisville, Louisville, Ky. (1), .....	75.04
Hottenstein, Charles A., .....	Jefferson Medical College (1), .....	82.91
Humphreys, Frank R., .....	College of P. and S., Baltimore, Md. (1), .....	87.30
Hunter, James Seaton, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.01
Hunsicker, William C., .....	Hahnemann Medical College, Philadelphia (2), .....	75.00
<b>1896:</b>		
Haben, John F., .....	Bellevue Hospital Medical College, New York (1), .....	78.17
Hamilton, Robert, .....	Gale University, Montreal, Canada (1), .....	76.13
Hare, Edgar Thomas, .....	Jefferson Medical College (1), .....	76.30
Harper, Francis Watts, .....	College of P. and S., Baltimore, Md. (1), .....	85.64
Harrington, George W., .....	Jefferson Medical College (1), .....	76.07
Harris, Amos J., .....	University of the City of New York, N. Y. (1), .....	75.00
Harris, James Albert, .....	Jefferson Medical College (1), .....	83.28
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	74.60
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	72.77
Harkness, Harry Clifton, .....	Chicago Homoeopathic Medical College (2), .....	81.14
Harsha, James Vance, .....	Western Pennsylvania Medical College (1), .....	76.07
.....	Western Pennsylvania Medical College (1), .....	63.00
.....	Western Pennsylvania Medical College (1), .....	71.61
.....	Western Pennsylvania Medical College (1), .....	60.54
.....	Jefferson Medical College (1), .....	76.23
Hart, Russell Thayer, .....	Hahnemann Medical College, Philadelphia (2), .....	81.57
.....	Pulte Medical College, Cincinnati, Ohio (2), .....	61.57
Hayes, Charles Howard, .....	University of Pennsylvania (1), .....	86.06
Hayes, Senes Edward, .....	Medico-Chirurgical College, Philadelphia (1), .....	86.04
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	72.87
Hazlett, Leslie Ramsey, .....	Jefferson Medical College (1), .....	85.10
Helisel, William L., .....	Eclectic Medical Institute, Cincinnati, O. (2), .....	89.71

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1886:</b>		
Henderson, Harry Allen, ...	Western Pennsylvania Medical College, Pittsburgh (1),	78.14
Herbein, Oscar Battelger, ...	Jefferson Medical College (1),	87.22
.....	Western Pennsylvania Medical College, Pittsburgh (1)	72.65
Hertsog, Charles Henry, ...	Western Pennsylvania Medical College, Pittsburgh (1),	76.47
Hesser, Andrew Jackson, ...	Western Pennsylvania Medical College, Pittsburgh (1),	86.30
Hess, Harvey Peter, ...	Hahnemann Medical College, Philadelphia (2),	85.71
Hickman, Walter Atlee, ...	University of Pennsylvania (1),	81.71
High, Frank G., ...	Western Pennsylvania Medical College, Pittsburgh (1),	80.80
.....	Jefferson Medical College (1),	69.80
Hill, Charles Augustus, ...	Western Pennsylvania Medical College, Pittsburgh (1),	81.29
Hill, John Sturgeon, ...	Jefferson Medical College (1),	76.01
Hirsch, Leon, ...	Jefferson Medical College (1),	79.69
Hobson, William Heverin, ...	Jefferson Medical College (1),	75.14
Hockmann, Georgine T., ...	Woman's Medical College of Pennsylvania (1),	82.14
Hoch, Albert M., ...	Western Pennsylvania Medical College, Pittsburgh (1),	76.90
Hoffman, Edward Almond, ...	Jefferson Medical College (1),	78.67
.....	College of P. and S., Baltimore, Md. (1),	72.90
.....	Columbus Medical College, Columbus, O. (1),	68.09
.....	Jefferson Medical College (1),	69.19
Holman, Samuel, ...	Bellevue Hospital Medical College, New York (1),	81.61
Holts, James M., ...	Columbus Medical College, Columbus, Ohio (1),	76.21
.....	Jefferson Medical College (1),	64.36
.....	Jefferson Medical College (1),	80.49
Horning, Frank, ...	Western Pennsylvania Medical College, Pittsburgh (1),	78.40
Hosterman, James Kreamer, ...	Woman's Medical College of Pennsylvania (1),	76.36
Howland, Josephine, ...	Yale University, Med. Dept., New Haven, Conn. (1),	82.32
Hubbell, George Moulthrop, ...	College of P. and S., Baltimore, Md. (1),	85.59
Humphreys, George H., ...	University of Pennsylvania (1),	76.99
Huston, David Trimble, ...	.....	.....
<b>1887:</b>		
Hackney, Evan Jeffries, ...	Hahnemann Medical College, Philadelphia (2),	79.20
Hadley, John Lemuel, ...	Cleveland Medical College, Cleveland, O., (2),	82.43
Hahn, Franklin Jacob, ...	Jefferson Medical College (1),	87.71
Haight, William Douglas, ...	Rush Medical College, Chicago, Ill. (1),	79.09
Haines, Willis Parker, ...	Jefferson Medical College (1),	79.20
Halbeisen, William A. J., ...	Western Pennsylvania Medical College, Pittsburgh (1),	55.19
.....	Jefferson Medical College (1),	77.54
.....	Ohio Medical University, Columbus, Ohio (1),	66.64
Haller, George Christian, ...	Hahnemann Medical College, Philadelphia (2),	86.51
Hamilton, Francis Albert, ...	Medico-Chirurgical College, Philadelphia (1),	75.13
Hamma, James Archibald, ...	Jefferson Medical College (1),	81.10
Hammond, William Nelson, ...	Southern Homoeopathic Medical College, Balt., Md. (3),	87.71
Hampsey, Alexander Rich'd, ...	Western Pennsylvania Medical College, Pittsburgh (1),	84.22
Hancock, Frank Bacon, ...	University of Pennsylvania (1),	81.90
Hanna, Robert C., ...	Baltimore Medical College, Baltimore, Md. (1),	81.97
.....	Western Pennsylvania Medical College, Pittsburgh (1),	85.75
Hart, Charles Delucena, ...	University of Pennsylvania (1),	85.04
Hatch, Philip Luther, ...	Cleveland Medical College, Cleveland, O. (2),	80.85
Hatch, Harry, ...	Eclectic Medical Institute, Cincinnati, O. (3),	82.76
.....	Western Pennsylvania Medical College, Pittsburgh (1),	67.22
.....	Western Pennsylvania Medical College, Pittsburgh (1),	72.76
Hays, Mary J., ...	University of Buffalo, N. Y. (1),	81.01
Hazlett, Silas Metz, ...	Jefferson Medical College (1),	83.38
Heberton, Charles Muller, ...	Medico-Chirurgical College, Philadelphia (1),	85.50
Heck, Fred Harry, ...	Western Pennsylvania Medical College, Pittsburgh (1),	80.47
Heffner, Curtis, ...	Jefferson Medical College (1),	84.81
.....	Medico-Chirurgical College, Philadelphia (1),	72.91
Hell, Alva Arling, ...	Medico-Chirurgical College, Philadelphia (1),	75.11
Helmbach, James M., ...	Hahnemann Medical College, Philadelphia (2),	81.00
Heintzelman, Bert S., ...	Western Pennsylvania Medical College, Pittsburgh (1),	78.76
Heiser, Victor George, ...	Jefferson Medical College (1),	84.83
Hemminger, Charles J., ...	Eclectic Medical Institute, Cincinnati, O. (3),	84.86
Hemphill, Jr., Joseph, ...	University of Pennsylvania (1),	79.82
Henry, Byron D., ...	Jefferson Medical College (1),	79.01
Herman, A. Jerome, ...	Medico-Chirurgical College, Philadelphia (1),	87.64
Herr, William Hubley, ...	University of Pennsylvania (1),	90.76
Herrington, Lee R., ...	Western Pennsylvania Medical College, Pittsburgh (1),	76.06
Hess, George H., ...	College of P. and S., Baltimore, Md. (1),	80.01
.....	Jefferson Medical College (1),	70.42
Hetrick, David Joseph, ...	Jefferson Medical College (1),	76.17
Hill, Anthony John, ...	Jefferson Medical College (1),	81.01
Hillary, Jesse Grant, ...	Medical College of Ohio, Cincinnati, O. (1),	85.88
Hirst, John Cooke, ...	University of Pennsylvania (1),	82.83
Hoag, Guy Dudley, ...	Bellevue Hospital Medical College, New York (1),	76.64
Hockenberry, William Rush, ...	College of P. and S., Cleveland, Ohio (1),	84.36
Hodge, Cortlandt V. R., ...	University of Pennsylvania (1),	80.56
Hoegel, Frank Conrad, ...	Western Pennsylvania Medical College, Pittsburgh (1),	80.04
.....	College of P. and S., Baltimore, Md. (1),	72.25
Holder, Charles Adams, ...	Jefferson Medical College (1),	81.43
Holliday, George Alfred, ...	Western Pennsylvania Medical College, Pittsburgh (1),	87.17
Holloway, Thomas Beaver, ...	University of Pennsylvania (1),	88.71
Hoopman, Sylvester V. G., ...	College of P. and S., Baltimore, Md. (1),	79.37
Horner, Myers Worman, ...	Jefferson Medical College (1),	79.41
Hughes, Willet Patterson, ...	University of Pennsylvania (1),	87.80
.....	Baltimore Medical College, Baltimore, Md. (1),	79.79
Hughes, Harriet, ...	New York Med. Col. and H. for Women, New York (3),	84.57

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1896:</b>		
Hunt, Benjamin Franklin,...	Baltimore Medical College, Baltimore, Md. (1), .....	75.85
Hurst, Harry Herbert, .....	University of Pennsylvania (1), .....	87.69
<b>1894:</b>		
Ingram, William Herbert,...	Western Pennsylvania Medical College, Pittsburgh (1), .....	88.34
Irish, William Beckford, ....	Jefferson Medical College (1), .....	86.76
Iseman, Charles McClellan,...	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.98
Ives, Susanna Mary, .....	Woman's Medical College of Pennsylvania (1), .....	86.29
<b>1896:</b>		
Iland, Edward M., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.89
Israel, Clara Theresa, .....	Woman's Medical College of Pennsylvania (1), .....	80.34
<b>1897:</b>		
Ingram, Clarence Hogue,....	Western Pennsylvania Medical College, Pittsburgh (1), .....	89.30
Irwin, George Rheem, .....	University of Pennsylvania (1), .....	78.28
Irwin, James Walter, .....	University of Michigan, Ann Arbor, Mich. (1), .....	76.59
<b>1894:</b>		
Jackson, Mary K., .....	Woman's Medical College of Pennsylvania (1), .....	75.81
James, John A., .....	Medico-Chirurgical College, Philadelphia (1), .....	84.15
Johnston, Ralph Erskin,....	College of P. and S., Baltimore, Md. (1), .....	86.23
Jones, Clement R., .....	Columbus Medical College, Columbus, O. (1), .....	76.58
Justice, Harry B., .....	Hahnemann Medical College, Philadelphia (2), .....	77.40
<b>1896:</b>		
James, George Raymond,....	Medico-Chirurgical College, Philadelphia (1), .....	89.06
(Withdrew), .....	Hahnemann Hospital College, San Francisco, Cal. (2), .....	85.54
Jamison, Hugh D., .....	University of Pennsylvania (1), .....	85.54
Johnson, Jr., Samuel, .....	Jefferson Medical College (1), .....	80.90
Johnson, Elbin J., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	86.85
Johnston, Edwin B., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.40
.....	Jefferson Medical College (1), .....	85.83
Johnson, Sara, .....	Boston University School of Med., Boston, Mass. (2), .....	83.60
.....	Jefferson Medical College (1), .....	59.71
<b>1896:</b>		
Jack, James Renwick, .....	Jefferson Medical College (1), .....	79.13
Jackson, Robert, .....	Jefferson Medical College (1), .....	86.17
James, D. Bushrod, .....	Hahnemann Medical College, Philadelphia (2), .....	93.71
Jennings, Joseph A., .....	Jefferson Medical College (1), .....	80.34
Jenkins, George Chapin,....	Hahnemann Medical College, Philadelphia (2), .....	85.71
John, Jacob Stacey, .....	Jefferson Medical College (1), .....	86.97
Johnston, George Coffin,....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.19
Johnston, James M., .....	College of P. and S., Baltimore, Md. (1), .....	85.21
Johnston, Joseph Elton, ....	Cleveland University of M. and S. (2), .....	80.43
Jones, Harry Herschey, ....	University of Pennsylvania (1), .....	94.03
.....	Hahnemann Hospital College, San Francisco, Cal. (2), .....	48.28
.....	University of the City of New York, N. Y. (1), .....	63.47
.....	Jefferson Medical College (1), .....	57.57
<b>1897:</b>		
.....	Woman's Medical College of Pennsylvania (1), .....	73.43
Jack, Anna M., .....	Woman's Medical College of Pennsylvania (1), .....	80.30
Jago, Arthur Herbert, .....	University of Glasgow, Scotland (1), .....	86.12
Jamison, Daniel Herwin, ....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.06
Jenkins, David Thomas, ....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.26
Johnston, Charles Oliver,....	Medico-Chirurgical College, Philadelphia (1), .....	82.94
.....	Jefferson Medical College (1), .....	73.79
Jones, Sophia Bethens, .....	University of Michigan, Ann Arbor, Mich. (1), .....	75.30
Jones, William Albert, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	78.94
Jones, John Comer, .....	Jefferson Medical College (1), .....	81.23
Jones, Leighton Wherry, ....	Jefferson Medical College (1), .....	77.79
Johnson, Frederick Charles,...	Cleveland Medical College, Cleveland, O. (2), .....	93.43
Judd, James Frederick, ....	Jefferson Medical College (1), .....	75.64
<b>1894:</b>		
Kelm, Harry J. S., .....	Medico-Chirurgical College, Philadelphia (1), .....	81.61
Kelly, Jr., Francis Joseph,...	Jefferson Medical College (1), .....	85.29
Kelsey, Ernest Watson, ....	University of Pennsylvania (1), .....	89.35
Kenyon, Charles Lewis, ....	Medical College of Ohio, Cincinnati, O. (1), .....	78.24
Kiger, John W., .....	Medical College of Ohio, Cincinnati, O. (1), .....	76.69
Kimmell, Edmund M., .....	Medico-Chirurgical College, Philadelphia (1), .....	87.61
King, Albert Hazlett, .....	Jefferson Medical College (1), .....	85.28
King, William Howard, ....	Jefferson Medical College (1), .....	80.69
Kirk, Chauncey Eldra, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.54
.....	Jefferson Medical College (1), .....	74.39
Kistler, E. M., .....	Bellevue Hospital Medical College, New York (1), ...	87.33
Klopp, Henry I., .....	Hahnemann Medical College, Philadelphia (2), .....	80.80
Knapp, John Rudolph, ....	University of Pennsylvania (1), .....	79.79
Knipe, William Henry, .....	Jefferson Medical College (1), .....	83.72
Knowles, George Alexander,...	University of Pennsylvania (1), .....	83.29
Knox, George A., .....	Eclectic Medical Institute, Cincinnati, O. (2), .....	84.67
Krall, John Thomas, .....	University of Pennsylvania (1), .....	80.34
Kremer, Walter Harry, .....	University of Pennsylvania (1), .....	86.63
Kriebel, Elmer G., .....	Jefferson Medical College (1), .....	87.03
Krum, F. W., .....	College of P. and S., Baltimore, Md. (1), .....	80.82



## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1895:</b>		
Kennedy, Louis T., .....	University of Pennsylvania (1), .....	91.16
Kenworthy, Wm. Bartle, .....	University of Pennsylvania (1), .....	92.49
Kercher, Delmo Ernest, .....	University of Pennsylvania (1), .....	96.61
King, Harry Brown, .....	Jefferson Medical College (1), .....	93.36
Kinner, George Marion, .....	University of Pennsylvania (1), .....	90.93
Kinsloe, W. D., .....	Hahnemann Medical College, Philadelphia (2), .....	75.90
Kirkpatrick, Jr., Thomas J., .....	University of Virginia, Medical Department, Charlottsville (1), .....	93.30
Kistler, Clinton Joshua, .....	University of Pennsylvania (1), .....	92.03
Klock, Joseph V., .....	Ohio Medical University, Columbus, Ohio (1), .....	93.79
Knodler, J. Warren, .....	Hahnemann Medical College, Philadelphia (2), .....	96.00
Kniffier, Oscar, .....	University of Pennsylvania (1), .....	90.76
Knight, Joseph R., .....	University of Bonn, Germany (1), .....	96.34
Koch, Otto Andrew, .....	Medico-Chirurgical College, Philadelphia (1), .....	84.21
Koeb, Isadore, .....	University of Pennsylvania (1), .....	93.29
Koel, George Heyde, .....	Jefferson Medical College (1), .....	93.33
Kress, Palmer John, .....	University of Pennsylvania (1), .....	90.36
Kugler, Jr., Geo. Wash't'n, .....	Jefferson Medical College (1), .....	95.66
.....	Jefferson Medical College (1), .....	82.08
.....	Hahnemann Medical College, Philadelphia (2), .....	69.90
<b>1896:</b>		
Karpeles, Maurice Joseph, .....	Jefferson Medical College (1), .....	83.99
Kaufman, John William, .....	Jefferson Medical College (1), .....	89.91
Kay, Thomas Walter, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	96.21
Keeler, Joseph Clarence, .....	Jefferson Medical College (1), .....	84.49
.....	Jefferson Medical College (1), .....	70.33
Kelter, Ira Abner, .....	University of Pennsylvania (1), .....	76.07
.....	Jefferson Medical College (1), .....	68.11
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	91.11
Keller, Thomas W., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	94.06
Kelso, John Scott, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	88.17
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	68.94
Kerr, John Alexander, .....	Trinity University, Toronto, Canada (1), .....	87.39
Kidder, Lincoln Ellsworth, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	92.67
Kiehl, Harry Luther, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.00
Kirchner, Louis Frederick, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.70
Kisner, Allen Oscar, .....	College of P. and S., Baltimore, Md. (1), .....	80.91
Klaer, Clarence, .....	Hahnemann Medical College, Philadelphia (2), .....	90.00
Klea, William A., .....	College of P. and S., Baltimore, Md. (1), .....	88.64
.....	Ohio Medical University, Columbus, O. (1), .....	63.89
.....	Jefferson Medical College (1), .....	74.23
Klinck, George S., .....	University of Pennsylvania (1), .....	81.31
Kling, Franklin B., .....	Baltimore Medical College, Baltimore, Md. (3), .....	81.66
.....	Jefferson Medical College (1), .....	63.14
Koenig, Augustus Otto, .....	University of Pennsylvania (1), .....	83.01
Korhnak, August Jacob, .....	Jefferson Medical College (1), .....	87.86
Korndoerfer, Jr., Augustus, .....	Hahnemann Medical College, Philadelphia (2), .....	96.71
Krause, William, .....	Hahnemann Medical College, Philadelphia (2), .....	80.00
.....	Jefferson Medical College, Philadelphia (1), .....	69.86
Krauss, George, .....	Jefferson Medical College (1), .....	77.29
Krogh, Detlef M. F., .....	Jefferson Medical College (1), .....	86.16
Kuhns, Harry B., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	76.73
Kuntz, John Moser, .....	Medico-Chirurgical College, Philadelphia (1), .....	76.84
<b>1897:</b>		
Kaltenbaugh, Wesley H., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	75.04
Keeler, Charles Edward, .....	Baltimore Medical College, Baltimore Md. (1), .....	80.76
Keen, James Watt, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.80
.....	Jefferson Medical College (1), .....	71.95
Kemble, Charles Cochran, .....	Jefferson Medical College (1), .....	88.73
Kemerer, Merion E., .....	College of P. and S., Baltimore, Md. (1), .....	78.83
Kendall, William Harvey, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	78.33
Kennedy, George Walter, .....	Baltimore Medical College, Baltimore, Md. (1), .....	82.73
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	66.07
Kephart, Thos. Albert Calvin, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.00
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.04
Kerna, William, .....	Jefferson Medical College (1), .....	77.91
Kerr, Charles John, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	75.86
Keylor, Walter Norwood, .....	University of Pennsylvania (1), .....	77.93
Kidd, Alexander Robert, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	85.79
Kidd, William Andrew, .....	Western Reserve Medical College, Cleveland, Ohio (1), .....	77.83
King, Isaac Kelley, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.66
Kistler, Chester K., .....	Jefferson Medical College (1), .....	87.12
Expelled, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	41.09
Klump, George Berry, .....	University of Pennsylvania (1), .....	88.87
Koons, Harry Haynes, .....	University of Pennsylvania (1), .....	88.21
Krepps, Allen Lewis, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.79
Kress, Edward Henry, .....	Jefferson Medical College (1), .....	87.36
Kyle, Edward Vance, .....	Baltimore University School of Medicine (1), .....	77.80
<b>1894:</b>		
Lacina, Charles William, .....	College of P. and S., Baltimore, Md. (1), .....	88.60
Langitt, William Sterling, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	88.39
.....	Woman's Medical College of Pennsylvania (1), .....	74.63
Lawrence, Fred M., .....	Hahnemann Medical College, Philadelphia (2), .....	87.70
Lefever, Enos K., .....	University of Pennsylvania (1), .....	92.11

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1894:</b>		
Levan, George Francis .....	Medico-Chirurgical College, Philadelphia (1), .....	82.89
Lippincott, Edmund N., .....	University of Pennsylvania (1), .....	82.69
Lippincott, Jesse Diverty, .....	Jefferson Medical College (1), .....	83.03
Livingston, F. J., .....	Baltimore Medical College, Baltimore, Md. (1), .....	71.94
Long, John Franklin, .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	89.43
Longacre, Jacob Elias, .....	Chicago National College, Chicago, Ill. (3), .....	61.14
Loos, Julia Clara, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.74
Lougee, Mary Williamina, .....	University of Pennsylvania (1), .....	92.46
Loucher, S. J. H., .....	Woman's Medical College of Pennsylvania (1), .....	81.28
Low, Frederick C., .....	Woman's Medical College of Pennsylvania (1), .....	90.87
Lytle, Frank P., .....	Eclectic Medical College, St. Louis, Mo. (3), .....	79.87
	University of Pennsylvania (1), .....	76.04
	Cleveland Medical College, Cleveland, O. (2), .....	45.40
	University of Pennsylvania (1), .....	80.09
<b>1895:</b>		
Laidley, John Collier, .....	University of Pennsylvania (1), .....	89.50
Law, Anna, .....	Baltimore Medical College, Baltimore, Md. (1), .....	67.17
Leamy, LaBarre Jayne, .....	Woman's Medical College of Pennsylvania (1), .....	84.12
Leatherman, Kate Wissler, .....	University of Pennsylvania (1), .....	85.47
Lechner, LeRoy Yahn, .....	Woman's Medical College of Pennsylvania (1), .....	77.07
Leeke, Harry Lightner, .....	Jefferson Medical College (1), .....	83.26
Lehner, William Henry, .....	University of Pennsylvania (1), .....	86.88
Leidy, Clarence F. M., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.41
	University of Pennsylvania (1), .....	73.51
	Woman's Medical College of Pennsylvania (1), .....	72.51
	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.57
Lewis, Margaret C., .....	Woman's Medical College of Pennsylvania (1), .....	81.93
Lichty, Milton J., .....	Baltimore Medical College, Baltimore, Md. (1), .....	68.94
Idilly, Howard Harrison, .....	University of Pennsylvania (1), .....	92.61
Lindsay, Roland Smith, .....	University of Pennsylvania (1), .....	89.01
Livingood, Louis Eugene, .....	University of Pennsylvania (1), .....	87.86
	Baltimore Medical College, Baltimore, Md. (1), .....	89.21
Loeb, Louis, .....	Jefferson Medical College (1), .....	70.71
Logue, William Porter, .....	University of Pennsylvania (1), .....	85.07
Loucks, Meade M., .....	University of Pennsylvania (1), .....	81.33
Lovelace, Elizabeth Metzler, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	88.33
Lowman, John Bodine, .....	Woman's Medical College of Pennsylvania (1), .....	85.96
Lutz, Jeremiah Fletcher, .....	Jefferson Medical College (1), .....	81.89
Lyle, William H., .....	College of P. and S., Baltimore, Md. (1), .....	83.15
Lyon, William Reynolds, .....	Hahnemann Medical College, Philadelphia (2), .....	85.90
Lytle, Isaac Walter, .....	Jefferson Medical College (1), .....	87.27
	University of Pennsylvania (1), .....	82.63
<b>1896:</b>		
Lamb, Thomas J., .....	College of P. and S., Baltimore, Md. (1), .....	78.89
Lamborn, Carey Lee, .....	University of Pennsylvania (1), .....	79.00
Larson, Louis Andrew, .....	Jefferson Medical College (1), .....	80.70
Lear, Isaac Newton, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.07
LeCates, Charles Asbury, .....	Jefferson Medical College (1), .....	89.44
Leipold, Bert Eugene, .....	Jefferson Medical College (1), .....	85.96
Leitzell, P. Wilson, .....	Jefferson Medical College (1), .....	85.96
Leopold, Herbert Preston, .....	Hahnemann Medical College, Philadelphia (2), .....	77.43
Lewis, Frank Leslie, .....	Hahnemann Medical College, Philadelphia (2), .....	77.43
Lippincott, Samuel Wesley, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	75.51
	University of Pennsylvania (1), .....	83.49
	Baltimore Medical College, Baltimore, Md. (1), .....	63.43
Livengood, Charles F., .....	Baltimore Medical College, Baltimore, Md. (3), .....	90.71
Lloyd, John Hepburn, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.09
Lockard, Wtmer G., .....	Baltimore Medical College, Baltimore, Md. (1), .....	89.36
Loesch, Harry F., .....	University of Pennsylvania (1), .....	81.94
Long, William Henry, .....	Jefferson Medical College (1), .....	81.10
Ludlow, David Hunt, .....	Gross Medical College, Denver, Col. (1), .....	84.44
	Cleveland Medical College, Cleveland, O. (2), .....	56.71
Lupin, Emanuel C., .....	Medico-Chirurgical College, Philadelphia (1), .....	84.66
Lutton, Joseph Robert, .....	University of Pennsylvania (1), .....	77.53
Lynch, James Albert, .....	Medico-Chirurgical College, Philadelphia (1), .....	80.87
<b>1897:</b>		
Laughlin, Rebecca P., .....	Woman's Medical College of Pennsylvania (1), .....	75.43
Lamb, Edwin, Egbert, .....	Cleveland University of M. and S. (2), .....	79.57
	Cleveland Medical College (2), .....	68.57
Iandis, Henry Rob't Murray, .....	Jefferson Medical College (1), .....	86.74
Latimore, Wm. Armstrong, .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	86.14
Latimore, William James, .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	86.30
Lauderdale, Walter Clark, .....	University of Pennsylvania (1), .....	87.86
	Medico-Chirurgical College, Philadelphia (1), .....	62.60
	University of Pennsylvania (1), .....	50.14
	Western Pennsylvania Medical College, Pittsburgh (1), .....	87.57
Laughlin, John P., .....	University of Pennsylvania (1), .....	83.63
Lawson, William E., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.40
Lebo, William Ellerslie, .....	Medico-Chirurgical College, Philadelphia (1), .....	75.43
LeCompte, William Cooper, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.76
Lee, John Cornell, .....	Baltimore Medical College, Baltimore, Md. (1), .....	80.53
Leffowitch, Charles Henry, .....	Jefferson Medical College (1), .....	75.13
LeFever, Charles Wesley, .....	Jefferson Medical College (1), .....	82.32
	Medico-Chirurgical College, Philadelphia (1), .....	67.57

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1897:</b>		
Lewis, Norman, .....	Jefferson Medical College (1), .....	79.52
Lewy, Raphael, .....	University of the City of New York, N. Y. (1), .....	78.21
Leydic, Clarence Lorraine, ..	Western Pennsylvania Medical College, Pittsburgh (1), ..	80.74
Light, John Joseph, .....	University of Pennsylvania (1), .....	80.73
Little, Jesse Trawin, .....	University of the South, Sewanee, Tenn. (1), .....	76.46
Litzberger, Henry Adam, .....	Medico-Chirurgical College, Philadelphia (1), .....	78.86
Livingston, Milton Walter, ..	Cleveland Medical College (2), .....	85.14
Loder, Accates Grant, .....	University of Pennsylvania (1), .....	80.71
Lodholz, Edward, .....	University of Pennsylvania (1), .....	88.10
Long, Dayton Joseph, .....	College of P. and S., Baltimore, Md. (1), .....	78.83
Long, John D., .....	University of Pennsylvania (1), .....	82.92
Longsdorff, Hildegard H., ..	Woman's Medical College of Pennsylvania (1), .....	78.33
Love, John King, .....	Jefferson Medical College (1), .....	78.77
Longsdorff, Hildegard H., ..	College of P. and S., Baltimore, Md. (1), .....	69.57
Lyon, Jr., Edward, .....	University of Pennsylvania (1), .....	89.22
<b>1894:</b>		
(Withdrawn), .....	Woman's Medical College, Baltimore, Md. (1), .....	23.27
MacCleery, Hugh, .....	University of Pennsylvania (1), .....	81.47
.....	Western Pennsylvania Medical College, Pittsburgh (1), ..	65.00
.....	Ohio Medical University, Columbus, Ohio (1), .....	70.79
.....	Jefferson Medical College (1), .....	90.42
MacElree, George Anderson, ..	University of Pennsylvania (1), .....	90.33
MacLeod, Jr., George Ingels, ..	Western Pennsylvania Medical College (1), .....	78.31
Macool, James Burnside, ....	Hahnemann Medical College, Philadelphia (2), .....	90.10
Mann, Simon Seitz, .....	Jefferson Medical College (1), .....	82.26
Marberger, George S., .....	University of Pennsylvania (1), .....	80.51
Marchand, John Louis, .....	Western Pennsylvania Medical College (1), .....	78.93
Marlin, Samuel Augustus, ....	Jefferson Medical College (1), .....	89.79
Marsh, William Alfred, .....	Jefferson Medical College (1), .....	87.70
Martindale, Joseph Watson, ..	Baltimore Medical College, Baltimore, Md. (1), .....	72.25
Martin, Richard A., .....	University of Pennsylvania (1), .....	78.76
McConnell, Geo. McCallister, ..	Western Pennsylvania Medical College, Pittsburgh (1), ..	87.17
McDaniel, Earl Leroy, .....	University of Pennsylvania (1), .....	87.17
McGraw, Edward Bernard, ....	Western Pennsylvania Medical College, Pittsburgh (1), ..	75.03
McGraw, W. E., .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	85.43
McGuire, John William, .....	Baltimore Medical College, Baltimore, Md. (1), .....	80.34
McKinley, Jr., Archie L., .....	University of Pennsylvania (1), .....	81.01
McKinney, William Glenn, ....	University of Pennsylvania (1), .....	90.42
McKown, Herbert Lee, .....	University of Pennsylvania (1), .....	83.39
.....	Jefferson Medical College (1), .....	70.42
McLean, John D., .....	University of Pennsylvania (1), .....	88.04
McNaul, William J., .....	Jefferson Medical College (1), .....	87.16
Mellor, Thomas, .....	Jefferson Medical College (1), .....	79.71
Mengel, Samuel Perry, .....	University of Pennsylvania (1), .....	94.64
Menger, Albert Charles, .....	Medico-Chirurgical College, Philadelphia (1), .....	78.24
Merkle, Joseph Franklin, .....	University of Pennsylvania (1), .....	75.12
Merriman, D. LeRoy, .....	Hahnemann Medical College, Philadelphia (2), .....	84.00
Metheny, Samuel A. S., .....	Jefferson Medical College (1), .....	81.75
Miller, Aaron Gable, .....	Jefferson Medical College (1), .....	86.36
Miller, Caspar Wistar, .....	University of Pennsylvania (1), .....	83.00
Miller, Edgar T., .....	Baltimore Medical College, Baltimore, Md. (1), .....	74.34
Miller, Emery, .....	University of Pennsylvania (1), .....	89.00
Mills, Alfred Cookman, .....	Jefferson Medical College (1), .....	79.22
Mintz, Chauncey Abram, .....	Hahnemann Medical College, Philadelphia (2), .....	79.30
Mohn, James Oliver, .....	Western Pennsylvania Medical College, Pittsburgh (1), ..	76.02
Molynaux, Denis, .....	Jefferson Medical College (1), .....	85.93
Moore, John W. F., .....	Royal College of P. and S., Ireland (1), .....	80.89
Moore, Robert Hall, .....	Jefferson Medical College (1), .....	87.63
.....	Kentucky School of Medicine, Louisville, Ky. (1), .....	80.76
.....	Hahnemann Medical College, Philadelphia (2), .....	70.00
Murphy, George Hazen, ....	Western Pennsylvania Medical College, Pittsburgh (1), ..	83.29
<b>1895:</b>		
Macdonald, Walter Scott, ....	Western University, Ontario, Canada (1), .....	85.39
Madden, Francis James, ....	Western Pennsylvania Medical College (1), .....	85.68
Malsch, Augustus Carl, .....	University of Pennsylvania (1), .....	82.30
Malaun, Murlington Emery, ...	University of Pennsylvania (1), .....	79.80
Mann, Enos S., .....	University of Pennsylvania (1), .....	85.96
Manning, Wm. John Joseph, ...	Jefferson Medical College (1), .....	85.04
Marris, Willard Lorraine, ....	University of Pennsylvania (1), .....	85.64
Mathews, George William, ....	University of Pennsylvania (1), .....	79.19
McAlpin, Jasmine, .....	Woman's Medical College of Pennsylvania (1), .....	80.76
.....	Western Reserve University, Cleveland, O. (1), .....	65.49
.....	Vanderbilt Medical College, Nashville, Tenn. (1), .....	39.00
.....	University of Pennsylvania (1), .....	69.64
.....	National University, Washington, D. C. (1), .....	54.78
.....	Jefferson Medical College (1), .....	69.36
McBride, Lewis E., .....	Chicago Homoeopathic Medical College (2), .....	87.50
.....	Hahnemann Medical College, Philadelphia (2), .....	67.80
McCarthy, Daniel J., .....	University of Pennsylvania (1), .....	83.88
McCombs, Willison Huey, ....	Western Pennsylvania Medical College Pittsburgh (1), ..	86.40
McDowell, Norris Stanley, ...	University of Pennsylvania (1), .....	89.70
McDowell, Harry Fleming, ....	Western Pennsylvania Medical College, Pittsburgh (1), ..	83.93
McGirk, Charles H., .....	University of Pennsylvania (1), .....	81.25

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
1895:		
McHenry, Ralph F., .....	Western Pennsylvania Medical College, Pittsburgh (1),	86.68
McIlwaine, George D., .....	Western Pennsylvania Medical College, Pittsburgh (1),	89.09
McKee, Thomas Kerr, .....	Medico-Chirurgical College, Philadelphia (1), .....	76.83
McLaughry, Elizabeth, .....	Woman's Medical College of Pennsylvania (1), .....	82.26
.....	Woman's Medical College of Pennsylvania (1), .....	78.72
McNeely, John Franklin, .....	Boston University School of Medicine, Boston, Mass. (2)	69.10
McWhorter, Thomas Henry, .....	Starling Medical College, Columbus, O. (1), .....	86.09
.....	University of Pennsylvania (1), .....	79.83
.....	Baltimore Medical College, Baltimore, Md. (1), .....	64.11
Meals, Charles Atlee, .....	Jefferson Medical College (1), .....	83.66
Meanor, William Craig, .....	University of Pennsylvania (1), .....	82.94
.....	Medico-Chirurgical College, Philadelphia (1), .....	70.61
Mellor, John, .....	Medico-Chirurgical College, Philadelphia (1), .....	75.49
Mershon, Lewis Smith, .....	University of the South, Sewanee, Tenn. (1), .....	75.27
.....	St. Petersburg Medical College, Russia (1), .....	80.12
Miles, Robert G., .....	Jefferson Medical College (1), .....	81.22
Miller, Charles Francis, .....	Baltimore Medical College, Baltimore, Md. (1), .....	75.23
Miller, Walter E., .....	Western Pennsylvania Medical College, Pittsburgh (1),	78.26
Miller, William Henry, .....	Medico-Chirurgical College, Philadelphia (1), .....	87.26
Miller, Elizabeth K., .....	Woman's Medical College of Pennsylvania (1), .....	81.76
Mishkin, Jacob, .....	Medico-Chirurgical College, Philadelphia (1), .....	74.40
Montgomery, Mary L., .....	Woman's Medical College of Pennsylvania (1), .....	88.40
Morgan, Rose, .....	Woman's Medical College of Pennsylvania (1), .....	77.29
Morossi, Albert C., .....	Hahnemann Medical College, Philadelphia (2), .....	86.08
Mowery, Samuel E., .....	University of Pennsylvania (1), .....	78.99
Murray, John Holmes, .....	Medico-Chirurgical College, Philadelphia (1), .....	75.80
Musser, Walter Scott, .....	Jefferson Medical College (1), .....	81.97
Myer, Will Warren, .....	University of Pennsylvania (1), .....	85.71
.....	Boston University School of Med., Boston, Mass. (2), ..	62.00
.....	Hahnemann Medical College, Philadelphia (2), .....	40.40
.....	Hahnemann Medical College, Philadelphia (2), .....	53.80
.....	Hahnemann Medical College, Philadelphia (2), .....	64.70
1896:		
Mackenzie, A. Ross, .....	Hahnemann Medical College, Philadelphia (2), .....	84.85
MacLennan, William F., .....	Jefferson Medical College (1), .....	84.70
Marren, Patrick J., .....	Medico-Chirurgical College, Philadelphia (1), .....	78.60
(Withdrawn), .....	Starling Medical College, Columbus, Ohio (1), .....	23.14
Marter, Linneus Esher, .....	Hahnemann Medical College, Philadelphia (2), .....	81.71
Martin, W. S., .....	Starling Medical College, Columbus, Ohio (1), .....	75.32
Maxwell, William Wilson, .....	University of Pennsylvania (1), .....	86.69
McBride, John Barnes, .....	Cleveland University of M. and S., (2), .....	85.71
McAndrews, Milton Lowrie, .....	Western Reserve University, Cleveland, Ohio (1), .....	76.47
McCarter, Robert Winfield, .....	Western Pennsylvania Medical College, Pittsburgh (1),	84.80
McCutcheon, Guy Little, .....	University of Buffalo (1), .....	83.14
McDonald Frances Theo-	University of Wooster, Med. Dept., Cleveland, O. (1), ..	75.13
dosis, .....	Western Pennsylvania Medical College, Pittsburgh (1),	74.47
.....	Hahnemann Medical College, Philadelphia (2), .....	60.48
McDowell, Archibald Sewell, .....	Hahnemann Medical College, Philadelphia (2), .....	75.43
McDowell, Wm. Archibald, .....	Hahnemann Medical College, Philadelphia (2), .....	84.00
McElhaney, Clarence W., .....	Western Reserve University, Cleveland, O. (1), .....	82.17
McGarrah, Olin K., .....	Hahnemann Medical College, Philadelphia (2), .....	76.71
McGranor, William Jackson, .....	Western Pennsylvania Medical College, Pittsburgh (1),	75.37
McGrath, John Thomas, .....	University of Pennsylvania (1), .....	82.90
.....	Western Pennsylvania Medical College, Pittsburgh (1),	70.90
McKee, Joseph A., .....	Jefferson Medical College (1), .....	79.93
McKee, Mary Ada, .....	Woman's Medical College of Pennsylvania (1), .....	82.69
McKee, Robert Sprague, .....	Western Pennsylvania Medical College, Pittsburgh (1),	88.46
McMurray, Gerald J., .....	Jefferson Medical College (1), .....	77.64
McNamara, Willie Weiss, .....	Western Pennsylvania Medical College, Pittsburgh (1),	80.33
Medd, Henry, .....	Jefferson Medical College (1), .....	80.61
Meek, J. Florian, .....	Baltimore Medical College, Baltimore, Md. (1), .....	89.13
McNeill, Clarence Elisha, .....	Cleveland Medical College, Cleveland, O. (2), .....	83.00
Metzgar, Daniel Arnel, .....	Western Pennsylvania Medical College, Pittsburgh (1),	81.94
Metzger, John Adam, .....	University of Pennsylvania (1), .....	79.57
Metheny, David Gregg, .....	Jefferson Medical College (1), .....	75.49
.....	Western Pennsylvania Medical College, Pittsburgh (1),	63.66
Middleton, Jr., Caleb S., .....	Hahnemann Medical College, Philadelphia (2), .....	83.14
Miller, Edwin John, .....	Jefferson Medical College (1), .....	90.69
Miller, John Harvey, .....	Jefferson Medical College (1), .....	89.24
Miller, Robert Hamilton, .....	Jefferson Medical College (1), .....	83.47
Miller, Thomas B., .....	Baltimore Medical College, Baltimore, Md. (1), .....	81.07
Miller, Harvey D., .....	Hahnemann Medical College, Philadelphia (2), .....	90.43
Milligan, Robert, .....	Jefferson Medical College (1), .....	87.19
Millnor, Robert Hanna, .....	Jefferson Medical College (1), .....	92.33
Minesinger, John Laughlin, .....	Western Pennsylvania Medical College, Pittsburgh (1),	81.12
Moke, William Theodore, .....	Western Pennsylvania Medical College, Pittsburgh (1),	86.09
Monaghan, James Matthew, .....	Medico-Chirurgical College, Philadelphia (2), .....	84.41
Monaghan, William Joseph, .....	Medico-Chirurgical College, Philadelphia (1), .....	86.57
Moore, E. Harrison, .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	87.00
.....	Baltimore Medical College, Baltimore, Md. (1), .....	72.00
Morris, Alanson F. B., .....	Western Pennsylvania Medical College, Pittsburgh (1),	79.19
Morris, Joseph, .....	Jefferson Medical College (1), .....	75.19
Morrison, William Francis, .....	Jefferson Medical College (1), .....	81.06
Morrow, William Gillespie, .....	Baltimore Medical College, Baltimore, Md. (1), .....	77.64

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1897:</b>		
Macbeth, Albert H., .....	University of Buffalo (1), .....	76.26
MacDuffee, Mary J., .....	Woman's Medical College of Pennsylvania (1), .....	78.00
MacKenzie, Robert Weatherburn, .....	Western Pennsylvania Medical College (1), .....	83.64
Magraw, George Thomas, .....	Jefferson Medical College (1), .....	82.40
Mahon, Alfred Neale, .....	Jefferson Medical College (1), .....	81.54
Manasses, Jacob Lippman, .....	Medico-Chirurgical College, Philadelphia (1), .....	78.37
Mansury, John Louis, .....	College of P. & S., Baltimore, Md. (1), .....	82.22
Many, Harry Crawford, .....	Jefferson Medical College (1), .....	81.39
Marvin, Merton Elwood, .....	Jefferson Medical College (1), .....	83.01
Martin, Charlotte Evangeline, .....	University of Buffalo, N. Y. (1), .....	75.99
Mathews, William, .....	University of Maryland School of Medicine, Balt., Md. (1), .....	80.47
Matteries, James Gicker, .....	Jefferson Medical College (1), .....	84.11
May, James Vance, .....	University of Pennsylvania (1), .....	86.57
Mayer, Edward Everett, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	85.04
McAdams, Robert Joseph, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	86.33
McAniff, John B., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	86.80
McAniff, Hugh Philip, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.70
McBurney, Charles Fred, .....	Medico-Chirurgical College, Philadelphia (1), .....	83.03
McCabe, Andrew M., .....	Jefferson Medical College (1), .....	82.61
McCarty, Jr., Robert Henderson, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.90
McClellan, George Eldredge, .....	Hahnemann Medical College, Philadelphia (2), .....	83.43
McClellan, Charles Steward, .....	Cleveland Medical College, Cleveland, O. (2), .....	72.71
McConnell, Charles Wheeler, .....	College of P. and S., New York, N. Y. (1), .....	85.84
McConnell, Thomas Dunn, .....	Western Pennsylvania Medical College (1), .....	77.47
McCorkle, William Fyles, .....	University of Pennsylvania (1), .....	84.19
McCormick, John Aloysius, .....	Miami Medical College, Cincinnati, Ohio (1), .....	75.00
McCulloch, David Coyle, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	69.43
McCune, Charles Ellsworth, .....	Jefferson Medical College (1), .....	86.06
McCune, Mary Virginia, .....	Jefferson Medical College (1), .....	84.96
McDowell, Samuel Ira, .....	Vanderbilt Medical College, Nashville, Tenn. (1), .....	68.00
McGreevy, William Henry, .....	Medico-Chirurgical College, Philadelphia (1), .....	83.76
McKee, Claude Worth, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.36
McKelway, John Irvin, .....	Woman's Medical College of Pennsylvania (1), .....	78.45
McKenna, John A., .....	Jefferson Medical College (1), .....	80.99
McMillan, William Thomas, .....	College of P. & S., Baltimore, Md. (1), .....	75.26
McReynolds, Rob't Phillips, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	66.15
Meter, Edward George, .....	Rush Medical College, Chicago, Ill. (1), .....	82.74
Miller, Edwin Buzby, .....	University of Pennsylvania (1), .....	82.90
Miller, Frank J., .....	Medico-Chirurgical College, Philadelphia (1), .....	74.15
Miller, William George, .....	Jefferson Medical College (1), .....	80.83
Miller, Seth S., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	71.40
Miller, James Albert, .....	University of Pennsylvania (1), .....	91.31
(Expelled), .....	Medico-Chirurgical College, Philadelphia (1), .....	79.76
Millhoff, Clarence Beacom, .....	Medico-Chirurgical College, Philadelphia (1), .....	66.26
Mills, Harry Brooker, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.80
Mitchell, William Albert, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.90
Montgomery, James McKay, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	72.93
Morgan, Arthur Caradoc, .....	University of Pennsylvania (1), .....	83.97
Morin, Michelle Arnold, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	64.43
Mossgrove, Jr., James Ross, .....	Hahnemann Medical College, Chicago, Ill. (2), .....	79.14
Muller, Andrew John, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	75.14
Mulrennan, John Patrick, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	45.36
Murray, Albert Hayden, .....	Jefferson Medical College (1), .....	85.30
Murray, Charles Scott, .....	Medico-Chirurgical College, Philadelphia (1), .....	83.86
May, William H., .....	Jefferson Medical College (1), .....	77.72
Mathews, William, .....	Jefferson Medical College (1), .....	54.44
McBurney, Charles Fred, .....	Jefferson Medical College (1), .....	78.49
McCarty, Jr., Robert Henderson, .....	Medico-Chirurgical College, Philadelphia (1), .....	88.84
McClellan, George Eldredge, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	68.02
McClellan, Charles Steward, .....	University of Pennsylvania (1), .....	75.26
McConnell, Charles Wheeler, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	72.26
McCorkle, William Fyles, .....	Baltimore Medical College, Baltimore, Md. (1), .....	61.90
McCune, Charles Ellsworth, .....	Cleveland Medical College (2), .....	47.71
McCune, Mary Virginia, .....	University of Pennsylvania (1), .....	87.54
McDowell, Samuel Ira, .....	Baltimore Medical College, Baltimore, Md. (1), .....	67.86
McGreevy, William Henry, .....	University of Pennsylvania (1), .....	82.12
McKee, Claude Worth, .....	University of Pennsylvania (1), .....	90.09
McKelway, John Irvin, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.33
McKenna, John A., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.99
McMillan, William Thomas, .....		
McReynolds, Rob't Phillips, .....		
Meter, Edward George, .....		
Miller, Edwin Buzby, .....		
Miller, Frank J., .....		
Miller, William George, .....		
Miller, Seth S., .....		
Miller, James Albert, .....		
(Expelled), .....		
Millhoff, Clarence Beacom, .....		
Mills, Harry Brooker, .....		
Mitchell, William Albert, .....		
Montgomery, James McKay, .....		
Morgan, Arthur Caradoc, .....		
Morin, Michelle Arnold, .....		
Mossgrove, Jr., James Ross, .....		
Muller, Andrew John, .....		
Mulrennan, John Patrick, .....		
Murray, Albert Hayden, .....		
Murray, Charles Scott, .....		
<b>1898:</b>		
May, William H., .....	Philadelphia University of M. and S. (3), .....	86.00
<b>1894:</b>		
Nason, John Blaisdell, .....	Jefferson Medical College (1), .....	78.23
Neff, Henry Segendorf, .....	Rush Medical College, Chicago, Ill. (1), .....	85.55
	Hahnemann Medical College, Philadelphia (2), .....	79.80

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1896:</b>		
Neal, Samuel Herbert, .....	Medico-Chirurgical College, Philadelphia (1), .....	82.98
Nelson, Christian, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.14
Nevin, Adolphus Leland, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.54
Noon, George A., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	72.21
.....	Georgia College of Eclectic M. and S., Atlanta, Ga. (3), .....	83.43
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	65.82
.....	Hahnemann Medical College, Philadelphia (2), .....	67.00
<b>1896:</b>		
Nettleton, Dewitt Baldwin, .....	Bellevue Hospital Medical College, New York (1), ....	87.30
Neufeld, Maurice A., .....	University of Pennsylvania (1), .....	76.16
New, Grant J. A., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	78.50
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.29
Newell, Joseph Ralph, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	58.91
Newman, William Harris, .....	Jefferson Medical College (1), .....	86.20
Newth, John H., .....	College of P. and S., Baltimore, Md. (1), .....	84.24
Newton, Robley Dunglison, .....	Medico-Chirurgical College, Philadelphia (1), .....	87.51
Newton, Silvanus B., .....	University of Pennsylvania (1), .....	86.40
Noll, Samuel Edward, .....	Medico-Chirurgical College, Philadelphia (1), .....	76.96
Norris, Elmer Patterson, .....	Jefferson Medical College (1), .....	86.19
Norris, Jr., Henry, .....	University of Pennsylvania (1), .....	82.51
Nicholson, Harry Schuyler, .....	Hahnemann Medical College, Philadelphia (2), .....	87.85
<b>1897:</b>		
Neft, Elmer Ellsworth, ....	University of Pennsylvania (1), .....	79.62
Neiman, Levi Allen, .....	Baltimore Medical College, Baltimore, Md. (1), .....	79.32
Newbold, Herman Alexander, .....	Hahnemann Medical College, Philadelphia (2), .....	81.85
Newman, Oscar Augustus, .....	University of Pennsylvania (1), .....	83.62
Nicodemus, Edwin Arthur, .....	Jefferson Medical College (1), .....	81.67
Noon, Milton A., .....	Baltimore Medical College, Baltimore, Md. (3), .....	82.21
Nunan, William L., .....	Jefferson Medical College (1), .....	76.32
Nunez, Edward F., .....	University of Pennsylvania (1), .....	76.24
<b>1894:</b>		
Oenslager, Jr., John, .....	University of Pennsylvania (1), .....	90.04
O'Farrell, Jr., Gerald D., .....	University of Pennsylvania (1), .....	86.07
.....	Medico-Chirurgical College, Philadelphia (1), .....	73.68
<b>1896:</b>		
Orr, John Crawford, .....	University of Pennsylvania (1), .....	78.55
<b>1896:</b>		
O'Brien, Michael E., .....	University of Pennsylvania (1), .....	79.49
Oburn, Albert Sidney, .....	Jefferson Medical College (1), .....	91.80
O'Donnell, Harry Jones, ....	Cleveland University of M. and S. (2), .....	76.85
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	70.61
Off, Henry John, .....	University of Pennsylvania (1), .....	78.50
Ogden, Zachariah Bailey, ....	Western Pennsylvania Medical College, Pittsburgh (1), .....	78.99
Owens, Harry Johns, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	69.01
.....	Jefferson Medical College (1), .....	82.64
<b>1897:</b>		
O'Connell, Austin, .....	Jefferson Medical College (1), .....	81.09
Odenatt, William Burrill, .....	Medico-Chirurgical College, Philadelphia (1), .....	79.82
O'Hara, Thomas Eloyus, .....	University of Pennsylvania (1), .....	81.84
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	71.00
Osborne, James Ambrose, ....	Hahnemann Medical College, Chicago, Ill. (2), .....	95.00
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	71.40
Osmond, Anna R., .....	Woman's Medical College of Pennsylvania (1), .....	79.04
Ostheimer, Maurice, .....	University of Pennsylvania (1), .....	86.37
Owens, Alexander Charles, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.09
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	70.54
<b>1894:</b>		
Park, Maybelle Maud, .....	Woman's Medical College of Pennsylvania (1), .....	87.23
Perry, Charles F., .....	University of Pennsylvania (1), .....	83.36
Peter, Luther Crouse, .....	University of Pennsylvania (1), .....	81.76
Pettit, Evelyn S., .....	Cleveland Medical College, Cleveland, O. (2), .....	83.00
Podolski, Louis A., .....	University of Pennsylvania (1), .....	86.79
Poehner, Adolph Adam, .....	University of Pennsylvania (1), .....	85.72
Porch, James Franklin, ....	Medico-Chirurgical College, Philadelphia (1), .....	78.86
Powell, William E., .....	Medico-Chirurgical College, Philadelphia (1), .....	89.82
Prevost, Clarence Worrell, ...	Jefferson Medical College (1), .....	84.44
<b>1895:</b>		
.....	Tufts College, Medical School, Mass. (1), .....	59.13
Palen, Gilbert J., .....	Hahnemann Medical College, Philadelphia (2), .....	96.30
Palmer, Alice Elizabeth, ....	Tufts College, Medical School, Mass. (1), .....	75.36
.....	Woman's Medical College of Pennsylvania (1), .....	74.21
Pemberton, Henry Russell, .....	Columbia College, New York, N. Y. (1), .....	74.21
Perkins, Theodore E., .....	Hahnemann Medical College, Philadelphia (2), .....	89.63
Perry, George Burroughs, ....	University of Pennsylvania (1), .....	85.19
Peterman, Harry Elmer, ....	Baltimore Medical College, Baltimore, Md. (1), .....	85.79
Peterman, James Harvey, ...	Baltimore Medical College, Baltimore, Md. (1), .....	84.16

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1886:</b>		
Pfueger, Henry Fred, .....	Medico-Chirurgical College, Philadelphia (1), .....	78.73
Pfromm, Geo. Washington, .....	Medico-Chirurgical College, Philadelphia (1), .....	87.76
Phelps, Josephine, .....	Woman's Medical College of Pennsylvania (1), .....	75.44
Pickett, William Clendenin, .....	Jefferson Medical College (1), .....	83.76
Pitcairn, Roy Campbell, .....	Hahnemann Medical College, Philadelphia (2), .....	93.60
Poliak, Berthold Steinbach, .....	Dartmouth Medical College, Hanover, N. H. (1), .....	83.71
Porter, John Wesley, .....	University of Maryland School of Medicine, Balt. (1), .....	71.90
Porter, Victor W., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	87.44
Postles, David Wilbert, .....	Howard University, Washington, D. C. (1), .....	77.80
Poust, George Alvin, .....	Jefferson Medical College (1), .....	83.16
Price, Frederick Kirker, .....	Jefferson Medical College (1), .....	79.01
<b>1886:</b>		
.....	Jefferson Medical College (1), .....	43.90
.....	University of Pennsylvania (1), .....	85.64
Patterson, Frank Iams, .....	Jefferson Medical College (1), .....	91.89
Patterson, Francis Denison, .....	University of Pennsylvania (1), .....	87.96
Paxson, Richard Randolph, .....	Hahnemann Medical College, Philadelphia (2), .....	80.43
Peeples, Rebecca A. C., .....	Woman's Medical College of Pennsylvania (1), .....	80.73
Peet, Ernest Leland, .....	Hahnemann Medical College, Philadelphia (2), .....	78.71
Phillips, John Wesley, .....	Baltimore Medical College, Baltimore, Md. (1), .....	78.54
Phillips, David Jonathan, .....	Medico-Chirurgical College, Philadelphia (1), .....	85.16
.....	Jefferson Medical College (1), .....	42.43
.....	University of Palermo, Italy (1), .....	56.36
Picard, Henry Leon, .....	Jefferson Medical College (1), .....	87.43
Plank, John Ransom, .....	Jefferson Medical College (1), .....	87.66
.....	Jefferson Medical College (1), .....	51.56
Polkshorn, Henry A., .....	Medico-Chirurgical College, Philadelphia (1), .....	86.80
Porch, Eli H., .....	Medico-Chirurgical College, Philadelphia (1), .....	82.07
Post, Albert Todd, .....	Jefferson Medical College (1), .....	85.07
Price, John Joseph, .....	Baltimore Medical College, Baltimore, Md. (1), .....	80.60
Prizer, Elmer Towers, .....	Hahnemann Medical College, Philadelphia (2), .....	87.85
Purdy, John, .....	Jefferson Medical College (1), .....	82.91
.....	University of Palermo, Italy (1), .....	67.49
Purves, George Morehouse, .....	University of Pennsylvania (1), .....	53.37
<b>1887:</b>		
Palmer, William A., .....	University of Buffalo (1), .....	86.23
Park, G. William, .....	Medico-Chirurgical College, Philadelphia (1), .....	80.61
Parker, Jabez Sparks, .....	University of Pennsylvania (1), .....	84.90
Parrish, Henry, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.90
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	60.90
Peck, John Lyman, .....	Hahnemann Medical College, Philadelphia (2), .....	89.43
Pepper, Jr., William, .....	University of Pennsylvania (1), .....	85.29
Peters, William Clancy, .....	Hahnemann Medical College, Philadelphia (2), .....	84.43
Phillips, Clarence Reynolds, .....	Jefferson Medical College (1), .....	80.12
Ploucher, William Allen, .....	Hahnemann Medical College, Philadelphia (2), .....	87.29
Plumstead, Martin Elias, .....	Chicago Homoeopathic Medical College (2), .....	85.14
Pontius, Nevill Dreisbach, .....	Jefferson Medical College (1), .....	83.54
Popp, James Michael, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	78.93
Porter, William Henry, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	53.29
Posey, Benjamin Franklin, .....	Baltimore Medical College, Baltimore, Md. (1), .....	78.69
Powelson, Darwin Taylor, .....	Georgia College of Eclectic M. and S., Atlanta, Ga. (3), .....	79.73
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	66.43
Prall, Samuel Ott, .....	University of Pennsylvania (1), .....	81.17
Price, David John, .....	Hahnemann Medical College, Philadelphia (2), .....	83.57
Pryer, Howard F., .....	Jefferson Medical College (1), .....	83.44
Fyle, William Thomas, .....	Ohio Medical University, Columbus, O. (1), .....	85.11
<b>1884:</b>		
Quay, Jr., Wm. Hendricks, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.66
.....	Cincinnati College of M. and S., Cincinnati, O. (1), .....	72.06
<b>1885:</b>		
Quetill, Charles Edouards, ..	University of Pennsylvania (1), .....	78.87
<b>1886:</b>		
(Withdrawn), .....	Cincinnati College of M. and S., Cincinnati, O. (1), ..	12.21
Quinn, Luther William, .....	Western Pennsylvania Medical College, Pittsburgh (1)	85.97
Quinn, Michael Henry, .....	Jefferson Medical College (1), .....	82.26
Quinn, William Lightner, .....	College of P. and S., Baltimore, Md. (1), .....	85.96
<b>1884:</b>		
Rea, Charles, .....	Medico-Chirurgical College, Philadelphia (1), .....	86.44
Redfield, Charles Ira, .....	University of Pennsylvania (1), .....	91.46
Reagan, Edwin W., .....	Rush Medical College, Chicago, Ill. (1), .....	79.81
Richards, Daniel Evan, .....	Western Pennsylvania Medical College, Pittsburgh (1), ..	79.90
Rivenburg, Sidney White, ..	Baltimore Medical College, Baltimore, Md. (1), .....	77.97
.....	Jefferson Medical College (1), .....	73.11
Rosenberger, Randel Crater, ..	Jefferson Medical College (1), .....	84.64
Ross, Joseph Herman, .....	Jefferson Medical College (1), .....	90.91
Rothermel, Wilson H., .....	Jefferson Medical College (1), .....	87.36
Roth, William Fritchey, .....	Hahnemann Medical College, Philadelphia (2), .....	75.00
Rovno, Philip, .....	Jefferson Medical College (1), .....	86.28

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1886:</b>		
Rankin, Charles Cooper, .....	Woman's Medical College of Baltimore (1), .....	64.43
Raue, Charles S., .....	University of Pennsylvania (1), .....	67.81
Ray, George Sylvester, .....	Hahnemann Medical College, Philadelphia (2), .....	96.10
Rectenwald, John J., .....	University of Pennsylvania (1), .....	93.36
Reed, George Arthur, .....	University of Pennsylvania (1), .....	87.58
Reese, Francis Gurney S., .....	University of Pennsylvania (1), .....	83.20
	University of Pennsylvania (1), .....	76.56
Rendell, Maitland W., .....	Woman's Medical College of Pennsylvania (1), .....	64.21
Reimel, Clara, .....	Hahnemann Medical College, Philadelphia (2), .....	86.10
Reinoehl, David V., .....	Woman's Medical College of Pennsylvania (1), .....	86.61
Rice, Thomas Harper, .....	University of Pennsylvania (1), .....	86.58
Richards, Ellerslie Wallace, .....	University of Pennsylvania (1), .....	94.07
Richmond, George Nelson, .....	University of Pennsylvania (1), .....	84.66
Rigg, Walter A., .....	University of Pennsylvania (1), .....	80.58
Riley, John D., .....	University of Pennsylvania (1), .....	90.11
Ritter, Howard Murray, .....	Jefferson Medical College (1), .....	87.79
Robbins, Clifton Z., .....	University of Pennsylvania (1), .....	87.16
Robbins, James E., .....	University of Pennsylvania (1), .....	87.34
Robrecht, John J., .....	University of Pennsylvania (1), .....	89.68
Roderick, Edward Rhys, .....	University of Pennsylvania (1), .....	84.97
Rodgers, Robert McMaster, .....	University of Pennsylvania (1), .....	81.28
Roe, William John, .....	Bellevue Hospital Medical College, New York (1), .....	76.44
Roedel, William R., .....	Jefferson Medical College (1), .....	88.26
	University of Pennsylvania (1), .....	84.08
	Medico-Chirurgical College, Philadelphia (1), .....	80.46
Rogers, Asa Holt, .....	Jefferson Medical College (1), .....	88.29
	Medico-Chirurgical College, Philadelphia (1), .....	88.29
Roose, Arthur Eugene, .....	Jefferson Medical College (1), .....	79.35
	Jefferson Medical College (1), .....	71.44
Rose, David, .....	Jefferson Medical College (1), .....	77.07
Rosenberry, Edward Shimer, .....	Jefferson Medical College (1), .....	87.65
Rosenthal, Lazarus, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	87.34
Ross, John Gordon, .....	University of Pennsylvania (1), .....	80.21
Rothrock, Henry Abraham, .....	University of Pennsylvania (1), .....	88.24
Rouache, William H., .....	Baltimore Medical College, Baltimore, Md. (1), .....	83.28
Russel, Andrew L., .....	University of Pennsylvania (1), .....	87.32
Russel, John Mack, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.01
<b>1886:</b>		
Ralston, Samuel Hodgens, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.83
Ramsey, Harvey Edwin, .....	Cleveland Medical College, Cleveland, O. (2), .....	89.14
Rankin, Charles Austin, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.37
Rankin, Henry Irwin, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	85.36
Raub, Richard V. L., .....	Jefferson Medical College (1), .....	88.11
Rebuck, Charles Stough, .....	College of P. and S., Baltimore, Md. (1), .....	90.37
Redman, John Lierfried, .....	Hahnemann Medical College, Philadelphia (2), .....	92.85
Reed, James Ross, .....	University of Pennsylvania (1), .....	84.33
Rees, D. T., .....	Baltimore Medical College, Baltimore, Md. (1), .....	76.01
Reese, George Washington, .....	University of Pennsylvania (1), .....	77.38
Reeser, Richard, .....	Jefferson Medical College (1), .....	91.59
Reeser, Stewart, .....	Medico-Chirurgical College, Philadelphia (1), .....	88.97
Rentschler, Walter Raleigh, .....	University of Pennsylvania (1), .....	80.90
Richards, Davis Bruce, .....	Jefferson Medical College (1), .....	86.56
Richards, William Lloyd, .....	University of Pennsylvania (1), .....	83.91
Righter, Harvey Mitchell, .....	Jefferson Medical College (1), .....	87.91
Riley, Edgar, .....	Ohio Medical University, Columbus, Ohio (1), .....	83.86
Roberts, Frank A., .....	Medico-Chirurgical College, Philadelphia (1), .....	79.17
Robertson, James Frederick, .....	Medico-Chirurgical College, Philadelphia (1), .....	80.80
Robinson, Agnes Bathsheba, .....	Woman's Medical College of Pennsylvania (1), .....	78.04
Rockhill, Edward Potts, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.39
Roemermann, W. E. D., .....	Jefferson Medical College (1), .....	77.79
	Royal University of Pisa, Italy (1), .....	67.76
Rosenstock, Henry, .....	Jefferson Medical College (1), .....	84.16
Rositer, Frederick Magee, .....	Rush Medical College, Chicago, Ill. (1), .....	84.64
Rowen, Charles, .....	Jefferson Medical College (1), .....	87.50
Roxby, John Byrd, .....	Medico-Chirurgical College, Philadelphia (1), .....	80.70
Ruppert, John Henry, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.71
	Medico-Chirurgical College, Philadelphia (1), .....	71.84
<b>1887:</b>		
Ramsey, George W., .....	Hahnemann Medical College, Philadelphia (2), .....	95.00
Randenbush, James S., .....	Medico-Chirurgical College, Philadelphia (1), .....	78.43
Rank, Harry Philip, .....	Jefferson Medical College (1), .....	84.51
Raper, Thomas Walter, .....	Jefferson Medical College (1), .....	76.44
Read, Alfred Hurst, .....	Jefferson Medical College (1), .....	83.59
Read, William Parsons, .....	Jefferson Medical College (1), .....	82.17
Remaly, Charles Edward, .....	University of Pennsylvania (1), .....	89.82
Remington, Arthur Hart, .....	University of Pennsylvania (1), .....	79.79
	Central University of Kentucky, Medical Department, Louisville, Ky. (1), .....	59.11
Rennie, Wesley Hartman, .....	Hahnemann Medical College, Philadelphia (2), .....	75.00
Rice, Alfred Curtis, .....	College of P. and S., Baltimore, Md. (1), .....	75.21
Rice, Homer Corby, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.47
Risser, Ulysses Grant, .....	Jefferson Medical College (1), .....	84.43
Ritchey, Elmer Clark, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.10



## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1897:</b>		
Ritter, Samuel James T., ...	Eclectic Medical Institute, Cincinnati, O. (3), .....	87.57
Robbins, Walter John, .....	Eclectic Medical College, Milwaukee, Wis. (3), .....	27.70
Roberts, Isaac Burton, .....	University of Pennsylvania (1), .....	81.79
Roberts, Norman, .....	University of Pennsylvania (1), .....	81.78
Roberts, Frederick Walton, .....	University of Pennsylvania (1), .....	87.69
Robin, Abraham, .....	Hahnemann Medical College, Philadelphia (2), .....	83.71
Robinson, Clarence G., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.13
Rodman, Thomas Bell, .....	Cleveland Medical College, Cleveland, O. (2), .....	78.98
Rodman, William Louis, .....	Medico-Chirurgical College, Philadelphia (1), .....	85.78
Roe, Byron LeRoy, .....	Jefferson Medical College (1), .....	89.11
Rogers, Charles Alexander, .....	Jefferson Medical College (1), .....	75.30
Roop, Harry Backenstoe, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.42
Rosen, Mayer, .....	University of Pennsylvania (1), .....	77.94
Ross, Alexander A., .....	Jefferson Medical College (1), .....	76.33
Rowe, William Thomas, .....	Trinity Medical College, Toronto, Ont. (1), .....	81.61
.....	University of Maryland School of Med., Balt. (1), .....	71.90
.....	University of Maryland School of Medicine, Balti- more (1), .....	77.04
Rugh, John B., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	61.21
Rutherford, James Ellsworth, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.76
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.70
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	66.77
<b>1894:</b>		
Samuel, William Charles, .....	Jefferson Medical College (1), .....	84.39
.....	University of Maryland School of Medicine, Balt. (1), .....	85.11
Saunders, John W., .....	Jefferson Medical College (1), .....	79.74
Scattergood, Joseph, .....	University of Pennsylvania (1), .....	84.65
Schau, John Schwalm, .....	University of Pennsylvania (1), .....	89.17
Schenermann, Carl V., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.21
Schoonmaker, Arthur T., .....	Hahnemann Medical College, Philadelphia (2), .....	92.70
Scott, William, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.34
Scribner, John King, .....	Jefferson Medical College (1), .....	83.11
Seldel, Frank W., .....	Hahnemann Medical College, Philadelphia (2), .....	91.40
Shartle, John, .....	University of the South, Sewanee, Tenn. (1), .....	75.37
Shuman, Ambrose, .....	University of Pennsylvania (1), .....	81.89
Shumway, Edward Adams, .....	University of Pennsylvania (1), .....	81.88
Shute, Harry A., .....	University of Pennsylvania (1), .....	83.79
Sickle, Harry A., .....	Kentucky School of Medicine, Louisville, Ky. (1), .....	80.54
Silasey, Nathaniel Eldridge, .....	University of Pennsylvania (1), .....	85.39
Simpson, George Emerson, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.00
.....	Woman's Medical College of Pennsylvania (1), .....	71.61
Skinner, Frank C., .....	Medico-Chirurgical College, Philadelphia (1), .....	76.58
Silfer, George Baringer, .....	Jefferson Medical College (1), .....	82.51
.....	Jefferson Medical College (1), .....	64.04
Smith, Joseph Isalah, .....	Jefferson Medical College (1), .....	83.71
Snyder, Charles Strong, .....	University of Pennsylvania (1), .....	87.71
Soffel, August, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.20
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.09
.....	Medico-Chirurgical College, Philadelphia (1), .....	80.81
.....	Medico-Chirurgical College, Philadelphia (1), .....	70.87
.....	University of Pennsylvania (1), .....	89.79
.....	University of Pennsylvania (1), .....	90.14
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.22
.....	University of Pennsylvania (1), .....	81.82
.....	Jefferson Medical College (1), .....	80.79
.....	University of Pennsylvania (1), .....	81.70
.....	University of the South, Sewanee, Tenn. (1), .....	80.98
.....	Woman's Medical College of Pennsylvania (1), .....	88.71
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	75.97
.....	Hahnemann Medical College, Philadelphia (2), .....	76.47
.....	Western Pennsylvania Medical College, Pittsburgh (1), .....	76.70
.....	Medico-Chirurgical College, Philadelphia (1), .....	79.36
.....	University of Pennsylvania (1), .....	85.64
<b>1895:</b>		
Sankey, B. E., .....	Cleveland Medical College, Cleveland, O. (3), .....	82.70
Saul, Henry Wilson, .....	Bellevue Hospital Medical College, New York (1), .....	85.00
Scheiner, Franklin Benjamin, .....	University of Pennsylvania (1), .....	83.97
Scheil, James Thompson, .....	Medico-Chirurgical College, Philadelphia (1), .....	89.50
Schleif, William, .....	University of Pennsylvania (1), .....	84.14
Schreiner, Edward R., .....	University of Pennsylvania (1), .....	90.09
Schively, Mary Alice, .....	Woman's Medical College of Pennsylvania (1), .....	76.47
Schultis, Joseph J., .....	Medico-Chirurgical College, Philadelphia (1), .....	86.38
Schultz, William Clyde, .....	Jefferson Medical College (1), .....	86.78
Schultz, J. William, .....	Medico-Chirurgical College, Philadelphia (1), .....	82.23
.....	University of Pennsylvania (1), .....	81.81
.....	Woman's Medical College of Pennsylvania (1), .....	85.44
.....	Baltimore Medical College, Baltimore, Md. (1), .....	81.36
.....	University of Pennsylvania (1), .....	74.76
.....	University of Vermont, Med. Dept., Burlington, Vt. (3), .....	83.85
Secor, John C., .....	University of Pennsylvania (1), .....	89.44
Shadle, Charles H., .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	82.85
Shaffer, Perry F., .....	Medico-Chirurgical College, Philadelphia (1), .....	69.59
.....	University of Pennsylvania (1), .....	83.77
Sharp, Leedom, .....	University of Pennsylvania (1), .....	83.77

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1896:</b>		
Shatto, Arthur B., .....	College of P. and S., Baltimore, Md. (1), .....	81.67
Shaw, John F., .....	Medico-Chirurgical College, Philadelphia (1), .....	82.71
Shepard, Ernest Newton, .....	Jefferson Medical College (1), .....	86.03
Sherer, Joseph Whitman, .....	University of Iowa, Med. Dept., Iowa City, Ia. (1), .....	88.99
Shetter, John R., .....	Hahnemann Medical College, Philadelphia (2), .....	78.50
Shick, Mary McDowell, .....	Woman's Medical College of Pennsylvania (1), .....	82.81
Shillito, Nicholas G. L., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.40
Shiner, Sterling D. L., .....	University of Pennsylvania (1), .....	88.40
Shires, B. Frank, .....	Medico-Chirurgical College, Philadelphia (1), .....	84.90
Shirley, Bernard W., .....	College of P. and S., Baltimore, Md. (1), .....	80.86
Shoaff, Charles Sheridan, .....	Keokuk Medical College, Keokuk, Ia. (1), .....	77.71
Shoemaker, Frank R., .....	Medico-Chirurgical College, Philadelphia (1), .....	84.71
Shope, Samuel Z., .....	University of Pennsylvania (1), .....	90.47
Shower, John A., .....	Southern Homoeopathic Medical College, Balt., Md. (2), .....	77.10
Shryock, Louisa May, .....	University of Wooster, Med. Dept., Cleveland, O. (1), .....	78.11
Simonton, Thomas Grier, .....	University of Pennsylvania (1), .....	89.90
Simpson, William Albert, .....	University of Pennsylvania (1), .....	88.60
Simpson, Jonathan Chauncy, .....	Jefferson Medical College (1), .....	86.26
Singley, John Devinne, .....	University of Pennsylvania (1), .....	92.75
Skidelsky, Rachel S., .....	Woman's Medical College of Pennsylvania (1), .....	79.24
Slack, Harry Wadsworth, .....	Jefferson Medical College (1), .....	89.43
Slack, Julia Hayward, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.80
Slaughter, Charles H. P., .....	Woman's Medical College of Pennsylvania (1), .....	87.64
Sloan, William Harper, .....	University of Pennsylvania (1), .....	86.04
Smille, Nathan, .....	Medico-Chirurgical College, Philadelphia (1), .....	76.14
Smink, Alfred Harrison, .....	Hahnemann Medical College, Philadelphia (2), .....	90.80
Smith, James Scranton, .....	Jefferson Medical College (1), .....	79.76
Smith, Dennis Kelly, .....	Jefferson Medical College (1), .....	81.48
Smith, Llewellyn B. R., .....	University of Pennsylvania (1), .....	86.73
Smith, Lawrence H., .....	University of the City of New York, N. Y. (1), .....	86.16
Snively, Robley Dunglison, .....	College of P. and S., Baltimore, Md. (1), .....	75.00
Snively, Abraham Barr, .....	Medico-Chirurgical College, Philadelphia (1), .....	75.64
Souder, Elmer Nicholas, .....	University of Pennsylvania (1), .....	88.01
Soupcoff, Jacob, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.68
Sparks, Grant, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	78.78
Spears, Raymond, .....	Detroit Medical College, Detroit, Mich. (1), .....	69.38
Spriessler, Anthony Gregory, .....	Medico-Chirurgical College, Philadelphia (1), .....	76.91
Stadlerman, Eugene, .....	Jefferson Medical College (1), .....	86.41
Staller, Max, .....	Medico-Chirurgical College, Philadelphia (1), .....	84.29
Stanford, John Thomas, .....	University of Pennsylvania (1), .....	82.80
Stauffer, Harry Jonathan, .....	Chicago College of P. and S., Chicago, Ill. (1), .....	83.61
Steinmetz, Deacon, .....	Howard University, Washington, D. C. (1), .....	76.90
Stephens, Albert Carlton, .....	Jefferson Medical College (1), .....	81.84
Stephens, Thomas David, .....	Hahnemann Medical College, Philadelphia (2), .....	90.00
Stopp, Lawrence Henry, .....	Medico-Chirurgical College, Philadelphia (1), .....	82.67
Stoner, Robert Royer, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	88.11
Stratton, Sina, .....	Medico-Chirurgical College, Philadelphia (1), .....	86.61
Strecker, Henry Anthony, .....	University of Pennsylvania (1), .....	72.94
Sturm, Samuel Augustus, .....	Woman's Medical College of Pennsylvania (1), .....	87.93
Sullivan, Margaret K., .....	Jefferson Medical College (1), .....	82.97
Sullivan, Patrick Thomas, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.47
Sutton, Mordecai Alva, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.61
Sykes, Robert, .....	Georgetown University, Washington, D. C. (1), .....	81.23
	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.74
	Western Pennsylvania Medical College, Pittsburgh (1), .....	74.86
	Western Pennsylvania Medical College, Pittsburgh (1), .....	76.64
<b>1896:</b>		
Sandels, Christie C., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.04
Sanes, Kay I., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.77
Savidge, Edgar, .....	University of Pennsylvania (1), .....	86.14
Sayers, Clement Emerson, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	90.09
Schaefer, Joseph Elmer, .....	College of P. and S., Baltimore, Md. (1), .....	90.44
Schneider, Charles Joseph, .....	Jefferson Medical College (1), .....	81.11
Scott, Robert Burns, .....	Jefferson Medical College (1), .....	83.47
Shaffer, Charles Daniel, .....	Cleveland Medical College, Cleveland, O. (2), .....	81.43
Shaffer, Orr Heleman, .....	Jefferson Medical College (1), .....	89.80
Shaffer, James Andrew, .....	Cleveland Medical College, Cleveland, O. (2), .....	90.43
Shaffer, Samuel Albert, .....	University of Vermont, Medical Department, Burlington, Vt. (1), .....	83.30
Shane, Smith C., .....	Western Homoeopathic College, Cleveland O. (2), .....	83.14
Shank, Orlando J., .....	Baltimore Medical College, Baltimore, Md. (1), .....	82.61
Shepard, Jackson B., .....	Howard University, Washington, D. C. (1), .....	81.67
Shiner, Arthur Burton, .....	Medico-Chirurgical College, Philadelphia (1), .....	78.17
Shriner, Howard Martin, .....	Jefferson Medical College (1), .....	87.93
Simmons, Clarence Wright, .....	Hahnemann Medical College, Philadelphia (2), .....	86.06
Simpson, William Winfield, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	90.09
	Western Pennsylvania Medical College, Pittsburgh (1), .....	72.23
Slonimsky, J. T., .....	Medico-Chirurgical College, Philadelphia (1), .....	78.69
Smith, Benjamin Franklin, .....	Jefferson Medical College (1), .....	88.26
Smith, Mary Hopkins, .....	Woman's Medical College of Pennsylvania (1), .....	81.82
Smith, Stanley Sinclair, .....	Jefferson Medical College (1), .....	87.63
Smith, William Alexander, .....	Jefferson Medical College (1), .....	87.27
(Expelled), .....	Baltimore Medical College, Baltimore, Md. (1), .....	..

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1896:</b>		
Snyder, Elwood S., .....	Hahnemann Medical College, Philadelphia (2), .....	79.43
Snyder, Marion David, .....	Jefferson Medical College (1), .....	83.89
Spackman, James Paul, .....	Jefferson Medical College (1), .....	91.33
Spence, Jesse Austin, .....	Miami Medical College, Cincinnati, Ohio (1), .....	86.97
Sprohls, Jesse Addison, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.47
Stafford, Alva M., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.33
Stahman, Frederick C., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.33
Stearns, J. W., .....	Medico-Chirurgical College, Philadelphia (1), .....	77.69
Stern, Charles O., .....	Medico-Chirurgical College, Philadelphia (1), .....	78.21
Stetson, John B., .....	Medico-Chirurgical College, Philadelphia (1), .....	86.01
Stewart, Francis Torrens, .....	Jefferson Medical College (1), .....	90.86
Stewart, John, .....	Jefferson Medical College (1), .....	79.09
Stieren, Edward, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.96
Stitzel, Jonas Wakefield, .....	Hahnemann Medical College, Philadelphia (2), .....	92.57
Strasser, Robert Eugene, .....	University of Wooster, Med. Dept., Cleveland, O. (1), .....	74.90
Stratton, Daniel R., .....	Baltimore University School of Medicine (1), .....	83.04
Straughn, Clinton Clement, .....	University of the City of New York, N. Y. (1), .....	83.09
Stubbs, Ambrose Hibert, .....	Hahnemann Medical College, Philadelphia (2), .....	87.21
Stunkard, Harry, .....	Baltimore Medical College, Baltimore, Md. (1), .....	84.33
Swope, Lorenzo Watson, ....	College of P. and S., Baltimore, Md. (1), .....	82.80
	Western Pennsylvania Medical College, Pittsburgh (1), .....	88.59
<b>1897:</b>		
Sample, Milliken James, ...	Cleveland Medical College, Cleveland, O. (2), .....	95.43
Santee, George Oliver O., .....	Jefferson Medical College (1), .....	86.61
Sappington, Samuel Watkin, .....	Hahnemann Medical College, Philadelphia (2), .....	95.43
Saunders, Robert Rogers, ....	Jefferson Medical College (1), .....	81.64
Sayers, John Curtis, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	78.79
Sayle, John J., .....	Medico-Chirurgical College, Philadelphia (1), .....	72.17
Schappert, N. Louis, .....	College of M. and S., Louisville, Ky. (1), .....	76.00
Scheffly, John Edward, .....	Medico-Chirurgical College, Philadelphia (1), .....	75.94
Schetky, Martha G. E., .....	Jefferson Medical College (1), .....	77.14
Schill, Jr., Francis R. G., .....	Woman's Medical College of Pennsylvania (1), .....	84.74
Schleicher, John R. H., .....	Jefferson Medical College (1), .....	84.73
Schlesman, Charles Harry, .....	University of Pennsylvania (1), .....	86.61
Schuelke, J. A., .....	University of Pennsylvania (1), .....	80.57
Sebring, Jr., John, .....	Jefferson Medical College (1), .....	79.64
Shallcross, William Gooding, .....	Jefferson Medical College (1), .....	78.27
Shearer, Christopher H., .....	Jefferson Medical College (1), .....	94.23
Shimer, Ira Augustus, .....	University of Pennsylvania (1), .....	80.29
Shmookler, Henry Bernard, .....	University of Pennsylvania (1), .....	91.80
Sholly, Agnes, .....	Jefferson Medical College (1), .....	87.27
	Woman's Medical College of Pennsylvania (1), .....	78.69
	University of Louisville, Ky. (1), .....	70.97
Shugert, Guy Scofield, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	89.83
Sigmann, Alfred, .....	University of Vienna, Austria (1), .....	82.26
Simpson, Alverdi J., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	76.16
Sinclair, John Falconer, .....	University of Pennsylvania (1), .....	80.12
	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.11
	University of Pennsylvania (1), .....	72.49
Sitter, Elijah Hollingsworth, .....	University of Pennsylvania (1), .....	83.60
Skilern, Ross Hall, .....	University of Pennsylvania (1), .....	81.23
Sloan, Charles M., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.16
Smiley, Howard Miles, .....	Jefferson Medical College (1), .....	80.07
Smith, A. Louis, .....	College of P. S., Cleveland, Ohio (1), .....	84.91
Smith, Charles Galen, .....	Jefferson Medical College (1), .....	83.30
Smith, George Lewis, .....	University of Pennsylvania (1), .....	82.51
Smith, Harvey Fetterhoff, .....	University of Pennsylvania (1), .....	91.11
Smith, Morton Hartman, .....	Medico-Chirurgical College, Philadelphia (1), .....	80.94
Smith, Thomas H., .....	Baltimore Medical College, Baltimore, Md. (1), .....	79.14
Smith, William Clarkson, .....	University of Pennsylvania (1), .....	83.30
Smith, Grace Gardiner, .....	Boston University School of Medicine, Boston, Mass. (2), .....	93.57
Smith, Myron Walter, .....	Boston University School of Medicine, Boston, Mass. (2), .....	96.00
Smith, Frank Quincy, .....	Jefferson Medical College (1), .....	82.49
Smyth, Henry Field, .....	University of Pennsylvania (1), .....	86.83
Snider, Simon Jacob, .....	Medico-Chirurgical College, Philadelphia (1), .....	77.41
Snodgrass, Bruce, .....	Marion Sims Medical College, St. Louis, Mo. (1), .....	83.07
	New York University Medical College, New York (1), .....	73.54
	Western Pennsylvania Medical College, Pittsburgh (1), .....	68.40
	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.86
	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.79
	Jefferson Medical College (1), .....	78.23
	Jefferson Medical College (1), .....	82.13
	Bellevue Hospital Medical College, New York, (1), .....	86.82
	Woman's Medical College of Pennsylvania (1), .....	77.14
	Medico-Chirurgical College, Philadelphia (1), .....	76.27
	Hahnemann Medical College, Philadelphia (2), .....	94.71
	University of Maryland School of Medicine, Balt., Md. (1), .....	85.40
	Western Pennsylvania Medical College, Pittsburgh (1), .....	73.87
	University of Pennsylvania (1), .....	81.60
	Baltimore Medical College, Baltimore, Md. (1), .....	83.29
	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.73
	Hahnemann Medical College, Philadelphia (2), .....	83.57
	Hahnemann Medical College, Philadelphia (2), .....	83.57
	Jefferson Medical College (1), .....	78.23
	University of Pennsylvania (1), .....	81.10
	Medico-Chirurgical College, Philadelphia (1), .....	76.41

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1894:</b>		
Thomas, Shalisha Edwards, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.93
Thomas, W. Hersey, .....	University of Pennsylvania (1), .....	83.04
Thompson, Charles, .....	Medico-Chirurgical College, Philadelphia (1), .....	79.46
Thompson, James R., .....	University of Pennsylvania (1), .....	87.29
Thompson, Frank Fraser, .....	Jefferson Medical College (1), .....	90.00
Timmons, Joseph McConnell, .....	Jefferson Medical College (1), .....	76.58
Tinker, Guert Merrill, .....	University of Pennsylvania (1), .....	87.04
Topham, Mary Elisabeth, ..	Woman's Medical College of Pennsylvania (1), .....	83.89
Trexler, Jacob F., .....	Jefferson Medical College (1), .....	84.83
Trimbath, Walter P., .....	University of Pennsylvania (1), .....	90.16
Troxel, William Edmund,...	Medico-Chirurgical College, Philadelphia (1), .....	77.75
Tucker, Henry, .....	Jefferson Medical College (1), .....	87.24
Turner, Irvine Friend Peddie	Jefferson Medical College (1), .....	83.50
Tripp, Joseph Charles, .....	Hahnemann Medical College, Philadelphia (2), .....	79.40
<b>1895:</b>		
Taylor, Alonzo Englebert,...	University of Pennsylvania (1), .....	90.25
Taylor, Samuel Banks, .....	Jefferson Medical College (1), .....	87.96
Taylor, Robert Lincoln, ....	College of P. and S., Baltimore, Md. (1), .....	86.15
Taylor, James Gurney, .....	University of Pennsylvania (1), .....	82.22
Terry, George H. B., .....	Jefferson Medical College (1), .....	84.50
Thomas, Thomas Turner, .....	University of Pennsylvania (1), .....	84.93
Tittle, Harry Woodruff, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.46
Townsend, Leroy Stewart, ..	Western Pennsylvania Medical College, Pittsburgh (1), .....	72.43
Tragansa, Frederick, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.09
Turner, William Thomas, .....	Hahnemann Medical College, Philadelphia (2), .....	79.10
.....	University of Pennsylvania (1), .....	81.40
.....	Woman's Medical College of Pennsylvania (1), .....	74.30
<b>1896:</b>		
Taggart, Thomas Dartnell,...	Jefferson Medical College (1), .....	87.87
Taylor, William Henry, .....	Hahnemann Medical College, Philadelphia (2), .....	85.14
Thomas, Nathan A., .....	Jefferson Medical College (1), .....	89.41
Thomas, Vernon D., .....	Jefferson Medical College (1), .....	87.89
Thompson, Crawford LeRol, ..	Western Pennsylvania Medical College, Pittsburgh (1), .....	77.13
Thompson, James Haslitt, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.29
Thompson, Louis Levi, .....	Jefferson Medical College (1), .....	81.80
Thompson, Oan Joshua, .....	Jefferson Medical College (1), .....	84.16
Thompson, Harry John, .....	Harvard University Medical School, Boston, Mass. (1), .....	78.96
.....	University of Naples, Italy (1), .....	69.29
Throckmorton, Chas. Benton, ..	Western Pennsylvania Medical College, Pittsburgh (1), .....	81.96
Thurston, Leon M., .....	Hahnemann Medical College, Philadelphia (2), .....	89.85
Todd, Devillo Otis, .....	Baltimore Medical College, Baltimore, Md. (1), .....	81.21
Travis, George Sherman, .....	Baltimore Medical College, Baltimore, Md. (1), .....	81.93
Treible, William Henry, .....	Jefferson Medical College (1), .....	86.81
Trout, Nicholas C., .....	Jefferson Medical College (1), .....	80.54
Turnbull, Wilfried, .....	University of the South, Sewanee, Tenn. (1), .....	85.27
Tuttle, Homer, .....	Chicago Homoeopathic Med. Col., Chicago, Ill., (2), ..	77.28
<b>1897:</b>		
Taggart, Howard M., .....	University of Pennsylvania (1), .....	75.74
Taylor, Harry Edwin, .....	Medico-Chirurgical College, Philadelphia (1), .....	75.44
(Expelled), .....	University of Pennsylvania (1), .....	..
Taylor, David Torrens, .....	University of Pennsylvania (1), .....	82.97
.....	Medico-Chirurgical College, Philadelphia (1), .....	68.72
Taylor, John Proudftt, .....	Western Pennsylvania Medical College, Pittsburg (1), .....	86.86
Thomas, Eb. W., .....	Jefferson Medical College (1), .....	78.27
.....	Jefferson Medical College (1), .....	68.83
Thomason, Wm. Paul Owen, .....	Jefferson Medical College (1), .....	86.33
.....	Baltimore University School of Medicine (1), .....	63.07
Todd, Martilius L., .....	Baltimore Medical College, Baltimore, Md. (1), .....	91.01
Traver, Samuel Nisley, .....	Jefferson Medical College (1), .....	77.94
Trites, Charles Sutton, .....	Hahnemann Medical College, Philadelphia (2), .....	91.14
Turner, Philip Percy, .....	Jefferson Medical College (1), .....	84.24
Twaddell, Thomas P. H., ....	University of Pennsylvania (1), .....	87.21
<b>1894:</b>		
Underwood, Fred Herbert, ..	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.76
<b>1896:</b>		
Ulmer, Stephen Edward, ....	Jefferson Medical College (1), .....	82.09
<b>1897:</b>		
Updegraff, Edward Watson, ..	Tulane University of Louisiana, Med. Dept. (1), .....	85.42
<b>1894:</b>		
Van Horn, John William, ....	Jefferson Medical College (1), .....	78.24
.....	College of P. and S., Baltimore, Md. (1), .....	73.63
Vosler, David Clair, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	85.81
.....	Jefferson Medical College (1), .....	71.81
<b>1895:</b>		
Van Lennep, Gustave A., ..	Hahnemann Medical College, Philadelphia (2), .....	96.80
VanKirk, Frank Streater, ...	University of Pennsylvania (1), .....	89.04
Varney, Edward M., .....	Medico-Chirurgical College, Philadelphia (1), .....	75.64
.....	College of P. and S., Baltimore, Md. (1), .....	74.63
.....	College of P. and S., Baltimore, Md. (1), .....	73.93
.....	Medico-Chirurgical College, Philadelphia (1), .....	74.63

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1895:</b>		
Vastine, John Hursh, .....	College of P. and S., Baltimore, Md. (1), .....	76.21
Vaux, George Henry, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.07
Veeder, Andrew Truax, ....	Albany Medical College, Albany, N. Y. (1), .....	76.16
Veith, Charles Alphonse, ....	University of Pennsylvania (1), .....	80.59
Voss, Frederick J., .....	Woman's Medical College of Pennsylvania (1), .....	73.91
Vowler, Mary G., .....	Jefferson Medical College (1), .....	78.48
	Woman's Medical College of Pennsylvania (1), .....	77.43
<b>1896:</b>		
VanGeisen, T. Lee, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.41
	Regia University of Naples, Italy (1), .....	72.04
VanHorn, Leon, .....	Jefferson Medical College (1), .....	82.54
VanHorne, Byron G., .....	University of Pennsylvania (1), .....	79.76
VanHorne, Cornelius Edw'd, ..	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.16
Varnier, Anna Devinn, .....	Cleveland Medical College, Cleveland, O. (2), .....	96.57
Vaughn, John Webb, .....	Medico-Chirurgical College, Philadelphia (1), .....	82.16
	Regia University of Naples, Italy (1), .....	84.30
VomSaal, Fred C. H., .....	University of Munich, Germany (1), .....	78.73
<b>1897:</b>		
Vermilyea, Charles Herbert, ..	Baltimore Medical College, Baltimore, Md. (1), .....	79.09
	Howard University, Washington, D. C. (1), .....	73.01
<b>1898:</b>		
Wakenfield, Katherine, .....	Woman's Medical College of Pennsylvania (1), .....	84.49
Wallace, William, .....	Jefferson Medical College (1), .....	80.73
Walker, Delia Mary, .....	Woman's Medical College of Pennsylvania (1), .....	80.15
Walker, James Chalmers, .....	University City of New York, New York, N. Y. (1), ..	75.04
Walters, Edward Reginald, ..	Hahnemann Medical College, Philadelphia (2), .....	75.30
Watkins, Frank A., .....	University of Minnesota, (1), .....	75.13
Watkins, Hannah Williams, ...	St. Louis Woman's Med. Col. & Hos., St. Louis, Mo. (1), ..	86.14
Watson, Stephen Sidney, .....	Jefferson Medical College (1), .....	85.36
Waylan, Julia Gould, .....	New York Medical College and Hospital for Women, ..	
	New York, N. Y. (2), .....	87.40
Weaver, George P., .....	Hahnemann Medical College, Philadelphia (2), .....	84.60
Wendell, W. Guthrie, .....	University of Pennsylvania (1), .....	82.79
Wenner, Alfred Jefferson, ....	Medico-Chirurgical College, Philadelphia (1), .....	81.99
Wenrich, George G., .....	University of Pennsylvania (1), .....	78.14
West, Charlotte, .....	Woman's Medical College of Pennsylvania (1), .....	79.35
Whiteside, Sarah, .....	Woman's Medical College of Pennsylvania (1), .....	87.71
Wilcox, Franklin Samuel, .....	Hahnemann Medical College, Philadelphia (2), .....	75.40
Williams, Rhys, .....	Western Pennsylvania Medical College, Pittsburgh (1), ..	83.45
Winters, Frank Winfield, .....	Jefferson Medical College (1), .....	82.00
	Cleveland University of M. and S., Cleveland, O. (2), ..	
Wise, George Franklin, .....	Medico-Chirurgical College, Philadelphia (1), .....	84.31
Wolfe, Samuel Melville, .....	Jefferson Medical College (1), .....	85.07
Wolf, Jacob, .....	Medical College of Ohio, Cincinnati, O. (1), .....	85.80
	University of Pennsylvania (1), .....	63.26
Workman, William Henry, .....	Medico-Chirurgical College, Philadelphia (1), .....	78.71
Wright, Oren Clinton, .....	Western Pennsylvania Medical College, Pittsburgh (1), ..	75.08
<b>1899:</b>		
Wagner, George W., .....	Jefferson Medical College (1), .....	86.07
Wallace, Joseph D., .....	Medico-Chirurgical College, Philadelphia (1), .....	81.96
Wallis, J. Frank, .....	University of Pennsylvania (1), .....	81.15
Walker, Thomas Holmes, .....	University of Pennsylvania (1), .....	79.80
Walsh, Frank Alfred, .....	Jefferson Medical College (1), .....	84.19
Walsh, Joseph P., .....	University of Pennsylvania (1), .....	87.07
Walter, Adam V., .....	Jefferson Medical College (1), .....	90.31
Ward, James Melvin, .....	University of Pennsylvania (1), .....	83.61
Warnock, Rob't Henderson, ....	Western Pennsylvania Medical College, Pittsburgh (1), ..	81.99
Wasslin, Eugene, .....	Medical College of the State of South Carolina, Charles- ..	
	ton, S. C., (1), .....	88.19
Weber, William Henry, .....	Western Pennsylvania Medical College, Pittsburgh (1), ..	86.50
	Western Pennsylvania Medical College, Pittsburgh (1), ..	60.65
Weill, Nathan Julius, .....	University of Pennsylvania (1), .....	90.41
Weich, James, .....	Chicago Homoeopathic Medical College, Chicago, Ill. (2), ..	77.40
Wentz, B. Frank, .....	University of Pennsylvania (1), .....	87.09
Wertz, Elias Grant, .....	Jefferson Medical College (1), .....	88.03
Weygandt, William Wilson, ....	Jefferson Medical College (1), .....	82.25
Weyant, Harry Washington, ....	University of Pennsylvania (1), .....	85.31
Whann, Jr., John, .....	Medico-Chirurgical College, Philadelphia (1), .....	77.41
White, Imman H., .....	College of P. and S., Baltimore, Md. (1), .....	84.51
	Long Island College Hospital, Brooklyn, N. Y. (1), .....	73.43
White, Jr., Courtland Y., .....	University of Pennsylvania (1), .....	86.46
	Woman's Medical College of Pennsylvania (1), .....	73.64
White, H. C., .....	Long Island College Hospital, Brooklyn, N. Y. (1), .....	75.76
Whitten, Emily G., .....	Woman's Medical College of Pennsylvania (1), .....	81.20
	Jefferson Medical College (1), .....	70.43
	College of P. and S., Baltimore, Md. (1), .....	65.33
Williams, Chas. Creighton, .....	Cleveland University of M. and S., Cleveland, O. (2), ..	77.00
Willson, Harry Gilbert, .....	University of Pennsylvania (1), .....	84.64
	Jefferson Medical College (1), .....	70.47

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
<b>1896:</b>		
Williams, Rachel R., .....	Woman's Medical College of Pennsylvania (1), .....	82.09
Williams, Joseph J. G., .....	University of Pennsylvania (1), .....	76.79
Williamson, James, .....	University of Pennsylvania (1), .....	83.51
Wilson, Thomas W., .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	84.00
Willis, Thomas Edmund, .....	University of Pennsylvania (1), .....	89.41
Wilson, Thomas Cooper, .....	Jefferson Medical College (1), .....	87.19
Wilson, James Foster, .....	University of Pennsylvania (1), .....	81.89
Wilson, Henry, .....	College of P. and S., Baltimore, Md. (1), .....	70.91
Witherspoon, James, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	75.82
Wolfe, Isaac Reber, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.73
Wolfson, Julius, .....	Jefferson Medical College (1), .....	81.72
Wood, George Bacon, .....	Jefferson Medical College (1), .....	88.39
Wood, Fred Green, .....	University of Pennsylvania (1), .....	87.05
Wood, Edward Henry, .....	Jefferson Medical College (1), .....	83.07
Woods, Richard Flavel, .....	College of P. and S., Baltimore, Md. (1), .....	90.94
Woodland, George Y., .....	University of Pennsylvania (1), .....	85.11
Woodruff, John S., .....	Medico-Chirurgical College, Philadelphia (1), .....	78.60
Wright, Barton Lisle, .....	Medico-Chirurgical College, Philadelphia (1), .....	75.92
	University of Pennsylvania (1), .....	82.94
<b>1896:</b>		
Walker, John P., .....	Baltimore Medical College, Baltimore, Md. (1), .....	75.04
Walker, Catherine, .....	Hahnemann Medical College, Chicago, Ill. (2), .....	83.43
Waller, George P., .....	Jefferson Medical College (1), .....	76.14
Wallace, Thomas Cushing, .....	Cleveland University of M. and S., Cleveland, O. (2), .....	84.43
Walsh, James J., .....	University of Pennsylvania (1), .....	90.27
Walz, Frank John, .....	Jefferson Medical College (1), .....	77.53
Ward, Nathan Gideon, .....	Jefferson Medical College (1), .....	79.16
Warnick, John W., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	79.06
Weamer, John A., .....	Baltimore Medical College, Baltimore, Md. (1), .....	83.51
Weaver, William Arthur, .....	Hahnemann Medical College, Philadelphia (2), .....	91.14
Weber, Charles Henry, .....	University of Pennsylvania (1), .....	82.71
Welfley, Albert Jonas, .....	Jefferson Medical College (1), .....	89.80
Wendt, Charles Isaac, .....	Hahnemann Medical College, Philadelphia (2), .....	91.57
Wenner, George Victor, .....	Medico-Chirurgical College, Philadelphia (1), .....	84.24
White, Edwin Bruce, .....	University of Toronto, Canada (1), .....	90.90
Wilkins, John Walter, .....	Medico-Chirurgical College, Philadelphia (1), .....	82.97
Wilkinson, George Henry, .....	Medico-Chirurgical College, Philadelphia (1), .....	85.53
Williams, Henry Lane, .....	University of Pennsylvania (1), .....	89.73
Williams, Herbert Forrest, .....	Hahnemann Medical College, Philadelphia (2), .....	87.85
Williams, Samuel T., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.86
Willson, Stanley Saviors, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	82.89
Wilson, Alfred W., .....	Albany Medical College, Albany, N. Y. (1), .....	83.51
Wilson, John McCullough, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.12
Wilson, Mary Thornton, .....	Woman's Medical College of Pennsylvania (1), .....	89.01
Wilson, Ray Alexander, .....	Western Pennsylvania Medical College (1), .....	81.24
Winlow, Isabella Mary, .....	Woman's Medical College of Pennsylvania (1), .....	85.83
Witmer, Peter Bachman, .....	Jefferson Medical College (1), .....	87.27
Woll, Albert Frederick, .....	Hahnemann Medical College, Philadelphia (2), .....	89.43
Wolf, William Henry, .....	Eclectic Medical Institute, Cincinnati, O. (3), .....	82.71
Wood, Jr., Horatio C., .....	University of Pennsylvania (1), .....	85.43
Woodhead, Henry Irvin, .....	Jefferson Medical College (1), .....	82.29
Woodruff, John Barnaby, .....	Jefferson Medical College (1), .....	88.43
Woodward, Edward Bials, .....	University of Pennsylvania (1), .....	78.57
Wray, William S., .....	University of Pennsylvania (1), .....	81.77
Wray, Elisabeth Eldredge, .....	Woman's Medical College of Pennsylvania (1), .....	84.44
Wycoff, George R., .....	Kentucky School of Medicine, Louisville, Ky. (1), .....	84.96
Wynn, Charles Austin, .....	Jefferson Medical College (1), .....	85.94
<b>1897:</b>		
Wadsworth, William Scott, .....	University of Pennsylvania (1), .....	84.51
Wagner, Earl Eulera, .....	Jefferson Medical College (1), .....	83.27
Wagner, John J., .....	Jefferson Medical College (1), .....	75.11
Wallace, George Sellers, .....	Jefferson Medical College (1), .....	82.20
Walker, William Pomp, .....	University of Pennsylvania (1), .....	88.83
Walscheld, Arthur John, .....	Dartmouth Medical College, Hanover, N. H. (1), .....	79.04
Walters, John, .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	84.56
Watson, Franklin, .....	Woman's Medical College, Baltimore, Md. (1), .....	65.29
Weamer, Charles C., .....	Hahnemann Medical College, Philadelphia (2), .....	80.57
Well, Harry, .....	Woman's Medical College of Pennsylvania (1), .....	74.06
Welsh, Garret Joseph, .....	Medico-Chirurgical College, Philadelphia (1), .....	81.96
Wenzel, Mary, .....	Woman's Medical College of Pennsylvania (1), .....	73.78
West, William Henry, .....	University of Pennsylvania (1), .....	73.99
	Chicago Homoeopathic Medical College, Chicago, Ill. (2), .....	78.14
	Woman's Medical College of Pennsylvania (1), .....	83.64
	College of P. and S., New York, N. Y. (1), .....	84.77
	Rush Medical College, Chicago, Ill. (1), .....	73.80
	University Medical College of Kansas City, Kansas City, Mo. (1), .....	61.30
Wetherby, Benedict Jones, .....	Rush Medical College, Chicago, Ill. (1), .....	83.51
Wetherby, Della Patterson, .....	University Medical College of Kansas City, Kansas City, Mo. (1), .....	75.91
White, Amy E., .....	Woman's Medical College of Pennsylvania (1), .....	78.00
Whitesell, Hallie W., .....	Woman's Medical College, Baltimore, Md. (1), .....	87.61
	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.06

## LIST OF PERSONS EXAMINED—Continued.

Names.	Colleges.	Averages.
1897:		
Wiggins, Edward Harvey,...	Jefferson Medical College (1), .....	85.44
Wilford, George Arthur, ...	University of the South, Sewanee, Tenn. (1), .....	84.30
Williams, Clyde L., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	80.78
Williams, Olin A., .....	Hahnemann Medical College, Chicago, Ill. (2), .....	75.38
Williamson, George Henry, .....	Hahnemann Medical College, Philadelphia (2), .....	50.57
.....	Cleveland University of M. and S., Cleveland, O. (2), .....	90.28
.....	Cleveland University of M. and S., Cleveland, O. (3), .....	72.28
Willie, Clarence W., .....	Cleveland University of M. and S., Cleveland, O. (3), .....	66.71
Wilson, Burt Lynn, .....	University of Pennsylvania (1), .....	87.96
.....	University of the City of New York, New York (1), .....	82.80
Wilson, H. Sheridan, .....	College of Medicine, Lebanon, Ohio (1), .....	67.44
Wister, James Wilson, ....	College of P. and S., Baltimore, Md. (1), .....	76.50
.....	University of Pennsylvania (1), .....	83.97
Wolfe, William S., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	67.97
Wolff, John Flickinger, ....	Jefferson Medical College (1), .....	81.76
Wolff, William Elder, .....	Medico-Chirurgical College, Philadelphia (1), .....	84.83
.....	Medico-Chirurgical College, Philadelphia (1), .....	79.76
Woods, Abraham Lincoln, ...	College of P. and S., Baltimore, Md. (1), .....	65.57
Wood, George Williamson, ...	Jefferson Medical College (1), .....	75.85
Woodhouse, Jr., Samuel W., ..	College of P. and S., Baltimore, Md. (1), .....	73.04
Woodside, Harry Addison, ...	Jefferson Medical College (1), .....	80.77
Worth, William Thomas, ...	University of Pennsylvania (1), .....	76.84
Wylie, Charles Robert, .....	Baltimore Medical College, Baltimore, Md. (1), .....	75.94
.....	University of Pennsylvania (1), .....	82.42
1896:		
Xander, William Oscar, ....	University of Pennsylvania (1), .....	87.44
1894:		
Yarrow, Jr., Thomas J., ....	University of Pennsylvania (1), .....	63.94
Yoemans, George Ellery, ....	University of Pennsylvania (1), .....	77.26
Yerkes, Frank E., .....	Jefferson Medical College (1), .....	84.12
Young, Jr., Wm. Wallace, ...	Hahnemann Medical College, Philadelphia (2), .....	75.00
.....	University of Pennsylvania (1), .....	80.49
1895:		
Yeager, Christian George, ...	University of Pennsylvania (1), .....	82.94
.....	College of P. and S., Baltimore, Md. (1), .....	71.14
Yagle, Jr., George N., .....	College of P. and S., Baltimore, Md. (1), .....	76.14
Yingling, C. C., .....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.90
1896:		
.....	Baltimore University School of Medicine (1), .....	70.07
1897:		
Yeager, Michael George, ....	Western Pennsylvania Medical College, Pittsburgh (1), .....	83.61
Yost, Robert J., .....	Baltimore University School of Medicine (1), .....	75.13
Young, Charles Louis, .....	Columbian University, Washington, D. C. (1), .....	84.78
.....	College of P. and S., Baltimore, Md. (1), .....	81.69
.....	Harvard University, Medical School, Boston, Mass. (1), .....	72.00
Young, Frank DeForest, ....	College of P. and S., Baltimore, Md. (1), .....	77.97
1894:		
Zimmerman, Lorenzo Bar- ton, .....	Jefferson Medical College (1), .....	84.18
Zimmerly, H. C., .....	Cleveland University of M. and S., Cleveland, O. (2), ..	75.00
1896:		
Zerfing, Charles E., .....	University of Pennsylvania (1), .....	81.54
Zebner, William Henry, ....	Jefferson Medical College (1), .....	82.26
1896:		
Zeig, John, .....	University of Michigan, Department of M. and S., Ann Arbor, Mich. (1), .....	80.54
.....	Medico-Chirurgical College, Philadelphia (1), .....	73.81
.....	Baltimore University, School of Medicine (1), .....	71.06
Zugmuth, Edwin, .....	University of Pennsylvania (1), .....	89.60
.....	Medico-Chirurgical College, Philadelphia (1), .....	70.61
1897:		
Zeller, Charles Adam, .....	Medico-Chirurgical College, Philadelphia (1), .....	77.20
Zelwis, Johanna T., .....	Woman's Medical College, Baltimore, Md. (1), .....	75.00
.....	Baltimore University, School of Medicine (1), .....	71.83
Zopfe, Markus, .....	Cleveland University of M. and S., Cleveland, O. (2), ..	80.43

LIST OF LICENSES ISSUED TO PERSONS HOLDING CERTIFICATES FROM OTHER STATES.

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1. Charles E. Snyder, September 21, 1894 (Allopathic). New York license No. 440.
2. Angeline Delphene Smith, March 11, 1895 (Allopathic). New York license No. 831.
3. Abbie G. Hinckley, March 11, 1895 (Homoeopathic). New York license No. 567.
4. Henry Halpert, May 8, 1895 (Allopathic). New York license No. 856.
5. George F. Lazarus, June 4, 1895 (Homoeopathic). New York license No. 842.
6. Edward Shepard Grigsby, June 18, 1895 (Homoeopathic). New York license No. 747.
7. William John Kline Snyder, June 24, 1895 (Allopathic). New York license No. 969.
8. Vincenzo Ciccone, July 10, 1895 (Allopathic). New York license No. 106.
9. Henry W. Lattin, July 24, 1895 (Allopathic). New York license No. 935.
10. Joseph Herbert Robison, August 2, 1895 (Allopathic). New York license No. 960.
11. Samuel Robinson Knight, October 16, 1895 (Allopathic). New Jersey license No. 384.
12. James Whilldin Ware, October 16, 1895 (Allopathic). New Jersey license No. 454.
13. Caroline Helen Van Horne, November 2, 1895 (Allopathic). New Jersey license No. 346.
14. Max Friedlander, November 11, 1895 (Allopathic). New York license No. 483.
15. Leo Fink Elstein, November 11, 1895 (Allopathic). New Jersey license No. 148.
16. Noah Howard Burt, November 20, 1895 (Allopathic). New Jersey license No. 485.
17. Marion Gifford, December 10, 1895 (Allopathic). New Jersey license No. 506.
18. John Stewart Wade, December 28, 1895 (Allopathic). New York license No. 193.
19. George Walter Caldwell, March 20, 1896 (Allopathic). New York license No. 89.



20. Oliver Babcock Wait, April 25, 1896 (Homoeopathic). New York license No. 545.

21. Harriet L. Noble Purte, May 16, 1896 (Allopathic). New Jersey license No. 344.

22. Edward Cumberland Kershner, May 16, 1896 (Allopathic). New York license No. 430.

23. David Ralph Bowen, May 21, 1896 (Allopathic). New York license No. 460.

24. Arthur Newman, July 15, 1896 (Allopathic). New York license No. 1139.

25. Benjamin Allen Tyler, Jr., July 3, 1896 (Allopathic). New Jersey license No. 364.

26. Thomas Scott Dedrick, Jr., July 15, 1896 (Homoeopathic.) New Jersey license No. 564.

27. Casimir Erasm Grabowski, October 8, 1896 (Allopathic). New Jersey license No. 351.

28. Helen Augusta Lord, November 10, 1896 (Allopathic). New Jersey license No. 617.

29. Alexander Fischer, November 18, 1896 (Allopathic). New Jersey license No. 619.

30. George Otis Caldwell, December 12, 1896 (Allopathic). New York license No. 1607.

31. Nellie Everitte Beesley, December 26, 1896. (Allopathic). New Jersey license No. 580.

32. Charles Augustus O'Dea, April 8, 1897 (Allopathic). New Jersey license No. 642.

33. Elmer Sherman Clouting, May 11, 1897 (Allopathic). New Jersey license No. 601.

34. Augustus Herman Keller, May 31, 1897 (Allopathic). New Jersey license No. 648.

35. Ignazio Cortese, June 18, 1897 (Allopathic). New Jersey license No. 517.

36. William Daniel Farber, June 18, 1897 (Allopathic). New Jersey license No. 649.

37. Ralph Emerson Buck, June 24, 1897 (Allopathic). New Jersey license No. 424.

38. Ernst Zille, August 17, 1897 (Allopathic). New Jersey license No. 700.

39. Bonejah Butcher Powell, August 30, 1897 (Allopathic). New Jersey license No. 707.

40. Robert Newton Willson, Jr., August 31, 1897 (Allopathic). New Jersey license No. 664.

41. Robert Watt, October 11, 1897 (Allopathic). New Jersey license No. 743.

42. Frederic Griffith, October 16, 1897 (Allopathic). New Jersey license No. 656.

43. Mary Emily Gillespie, nee Caminade, October 20, 1897 (Allopathic). New Jersey license No. 345.

44. Alpheus McKibben, October 26, 1897 (Allopathic). New Jersey license No. 749.

45. William Brown Morford, November 5, 1897 (Homoeopathic). New Jersey license No. 684.

46. William Bernard Zineman, November 5, 1897 (Allopathic). New Jersey license No. 750.

47. Alvah Alpheus Swayze, December 30, 1897 (Allopathic). New Jersey license No. 697.

48. Frederick Frelinghuysen Coleman, January 22, 1898 (Allopathic). New Jersey license No. 228.

49. Charles Franklin Doran, February 9, 1898 (Allopathic). New Jersey license No. 565.

QUESTIONS USED IN THE EXAMINATIONS BY THE MEDICAL EXAMINING BOARDS. \*

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Monday, June 11, 1894, 2 P. M.

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Anatomy.

1. What are the anterior and posterior boundaries of the axilla, and what arteries and nerves pass through it?
2. Give the origin and distribution of the third division of the fifth pair of nerves.
3. Bound Scarpa's triangle, and mention the vessels and nerve in it.
4. Name the branches of the abdominal aorta.
5. Give the location and describe the anatomical structure of the kidneys.
6. Describe the mesentery.
7. With what bones does the radius articulate?
8. Name the subdivisions of the alimentary canal, and give the name and location of the various glands found in the small intestines.
9. Give a brief yet comprehensive description of the heart.
10. Give the origin and general distribution of the sympathetic nerve.

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Tuesday, October 16, 1894, 2 P. M.

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Anatomy.

1. What forms the external malleolus?
2. Describe the ovaries.
3. How do arteries and capillaries differ?
4. Describe one of the vertebrae.
5. What vessels and nerves are contained in the popliteal space.
6. Describe the position of the palmar arterial arches.
7. What blood vessels pass to and from the liver?
8. Describe the pyloric orifice of the stomach.
9. What tissues of the abdominal wall are divided in the operation for appendicitis?
10. Give the distribution of the third cranial nerve.

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Tuesday, February 12, 1895, 2 P. M.

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Anatomy.

1. What forms the internal ham strings?
2. Describe the location of the intercostal arteries.

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\*Questions in Anatomy, Physiology and Pathology, Diagnosis and Hygiene, Surgery, Obstetrics and Chemistry, are the same for the three Boards.

3. Describe the glottis.
  4. What bone forms the heel, and with what does it articulate?
  5. What arteries supply the heart with blood, and where do they originate?
  6. Name the structures located in the inguinal canal, and give their anatomical relations.
  7. Describe the thoracic duct.
  8. Describe the pleura.
  9. Name the seven openings into the pharynx.
  10. What nerves supply the tongue?
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Tuesday, June 18, 1895, 2 P. M.

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Anatomy.

1. With what bones does the clavicle articulate?
  2. Give the external boundary of the popliteal space.
  3. Give the origin and distribution of the median nerve.
  4. Where is the fissure of sylvius, and what artery does it contain?
  5. Name the branches of the brachial artery.
  6. Locate and describe the spleen.
  7. Name the component parts of the spermatic cord.
  8. Describe the omentum.
  9. Describe the duodenum.
  10. Briefly describe the eye, and name the muscles of the eyeball.
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Tuesday, December 17, 1895, 2 P. M.

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Anatomy.

1. With what bones does the frontal articulate?
2. What nerves supply the tongue?
3. Describe the structure of the prostate gland, and give its anatomical relations.
4. Name the arteries that supply the uterus, and give their origin.
5. Describe the crystalline lens, and state what tissues are in contact with it, and how.
6. Give a brief description of the membranes of the brain.
7. Describe the gross anatomy of the larynx.
8. Minutely describe the relation of the peritoneum to the bladder.
9. Describe the endocardium.
10. What parts of the brain does the Pons Varolii connect?

Tuesday, June 16, 1896, 2 P. M.

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**Anatomy.**

1. Describe and give the anatomical relation of the appendix vermiformis.
  2. Describe Poupart's ligament, naming its anatomical relations and uses as a surgical guide.
  3. Describe the femoral artery and its branches.
  4. Name the principal lobes of the brain and the fissures dividing them.
  5. Locate and describe the pancreas.
  6. Name the nine pairs of cranial nerves.
  7. Name the bones articulating with the humerus.
  8. Describe the eustachian tubes.
  9. Describe the diaphragm, its principal openings and nerve supply.
  10. Describe the broad ligaments of the uterus and their anatomical relations.
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Monday, December 14, 1896, 2 P. M.

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**Anatomy.**

1. Give an anatomical description of the broad ligaments of the uterus.
  2. Name the ganglia connected with the fifth pair of cranial nerves.
  3. Name the subdivisions of the alimentary canal and the glands found in each.
  4. Give an anatomical description of the bronchial tubes.
  5. Name the branches of the subclavian artery.
  6. Name and locate the muscles of the eyeball.
  7. Describe the inguinal canal.
  8. Locate and describe the ileo-caecal valve.
  9. Describe either the ascending or descending vena cava.
  10. Name the bones that form the ankle joint and give their relations.
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Tuesday, June 15, 1897, 2 P. M.

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**Anatomy.**

1. Describe the endocardium.
2. What muscles form the "quadriceps extensor cruris" and where

is its conjoined tendon inserted? •

3. With what bones does the malar articulate?

4. What arteries supply the bladder, in the male, and from what are they branches?

5. In an amputation of the forearm, three inches above the wrist, what arteries will it be necessary to tie, and of what are they branches?

6. Describe the sciatic nerve.

7. Name the ductless glands.

8. Locate the fourth ventricle of the brain.

9. Locate and briefly describe the gall-bladder.

10. What are the uriniferous tubules? Describe and locate them.

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Monday, December 13, 1897, 2 P. M.

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Anatomy.

1. Describe the oesophagus as to (a) location, (b) dimensions, (c) arterial supply.

2. Describe the rectum as to structure, length and contained glands.

3. Name the foramina at the base of the skull, and the structures transmitted through each.

4. Describe the female urethra as to (a) location, (b) dimensions, (c) structure.

5. What is contained in the right hypochondriac region?

6. What muscles form the tendo Achillis, and where is the tendon inserted?

7. What forms the internal malleolus of the ankle-joint?

8. Of what parts does a true rib consist?

9. Describe tendon and its mode of insertion.

10. Describe anatomically, nerve tissue; give its varieties.

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Tuesday, June 12, 1894, 9 A. M.

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Physiology.

1. What do you understand by the term nutrition, and what processes are comprised under it?

2. What is the function of respiration? Describe the process by which it is accomplished.

3. Describe reflex action, and cite an instance.

4. What are the physiological properties of the facial nerve?
5. What is the normal temperature of the human body, and by what processes is it maintained?

Pathology.

1. Give the characteristic differences between sarcomata and carcinomata.
  2. Give the principal varieties of renal changes, ordinarily classified as Bright's disease.
  3. What changes take place in the hepatic tissues during acute inflammation of the liver?
  4. What pathological changes occur in rachitis?
  5. Describe the pathological changes occurring in synovitis.
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Wednesday, October 17, 1894, 9 A. M.

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Physiology.

1. What are the functions of the stomach?
2. Explain how the normal cardiac sounds are produced.
3. Describe the phenomena of urinary secretion and excretion.
4. Give the principal functions of the cerebellum.
5. What system of nerves regulates arterial tension? Explain the qualities of the normal pulse.

Pathology.

1. What pathological changes in the arteries usually precede aneurism?
  2. What is the pathology, so far as known, of pernicious anemia?
  3. Describe the pathological processes of dry and moist gangrene.
  4. Explain fatty metamorphosis and describe the process as it occurs in the heart.
  5. Describe the difference characterizing the pathological changes of croupous and catarrhal pneumonia.
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Wednesday, February 13, 9 A. M.

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Physiology.

1. State the causes of the first and second sounds of the heart.
2. Give the amount of urea excreted by man in twenty-four hours, and state the kind of food from which it is derived.

3. State the functions of the anterior and posterior roots of the spinal nerves.

4. What are the Wolffian bodies? When do they appear, and into what organs do they ultimately develop?

5. What is meant by vaso-constrictor and vaso-dilator nerves?

#### Pathology.

1. What pathological changes occur in cirrhosis of the liver?

2. How would you recognize amyloid degeneration?

3. What pathological changes occur in caries?

4. Describe catarrhal inflammation.

5. Briefly describe the types of gangrene and give the conditions determining each.

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Wednesday, June 19, 1895, 9 A. M.

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#### Physiology.

1. Name the functions of bile in the process of digestion.

2. Explain the physiological circuit essential to a reflex action, and cite an instance.

3. What are the functions of the red blood corpuscles and what is their relative number to the white corpuscles?

4. What is the function of the sixth (abducens) nerve?

5. What is the approximate amount of urea excreted daily by an adult in health?

#### Pathology.

1. What pathological changes occur in emphysema?

2. What pathological changes usually accompany aortic regurgitation?

3. What is the difference between thrombosis and embolism?

4. What is the difference between a hyperplasia and hypertrophy?

5. Describe calcareous degeneration and explain the two processes by which tissues undergo this change.

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Wednesday, December 18, 1895, 9 A. M.

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#### Physiology.

1. What are the functions of the blood vessels?

2. Name and describe the normal respiratory sounds of the lungs and bronchi, and state how they are caused.



3. Of the function of vision, what is understood by "accommodation?" and what structure is the principal factor by which it is accomplished?

4. Describe the action of the kidneys, and give the normal constituents of the urine.

5. Describe gastric digestion, with special reference to the changes effected upon the types of food.

#### Pathology.

1. Describe the histological elements of carcinoma.
  2. Describe tuberculosis of the skin, in any of its forms.
  3. Describe the changes that take place in cirrhosis of the liver.
  4. Describe the changes in the heart due to fatty metamorphosis.
  5. What historical changes occur in acute simple inflammation?
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Wednesday, June 17, 1896, 9 A. M.

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#### Physiology.

1. Describe the respiratory function of the red blood corpuscles.
2. Describe the normal pulse; state the factors active in its maintenance and give the average rate during infancy, youth and adult age.
3. Name the active principles of the digestive secretions and state how each affects food.
4. Give the normal temperature of the human body and explain how it is maintained.
5. From what portion of the cortex cerebri do the arm, face and leg receive their motor impulses?

#### Pathology.

1. Explain the difference between an infiltration and a degeneration and cite an instance of each.
2. Describe the common phenomena of suppuration.
3. What pathological condition is present in sarcoma and in what tissues is it most frequently found?
4. What pathological changes occur in acute and chronic nephritis?
5. Describe the structural change that occurs in simple acute osteitis.

Tuesday, December 15, 1896, 9 A. M.

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**Physiology.**

1. Describe the position of the vocal cords during phonation and name the factors concerned.
2. Describe the functions of the capillaries.
3. Give the origin of normal fat in the human body, and name examples of the types of food from which it is elaborated.
4. Describe a complete physiological revolution of the heart.
5. Describe the process of respiration.

**Pathology.**

1. Describe the pathological changes in senile gangrene.
  2. Describe the pathological changes in acute yellow atrophy.
  3. Give a general description of plasmodium malariae.
  4. Describe the pathological characteristics of common hepatic cirrhosis. (Gin drinkers' or hob-nailed liver.)
  5. Describe the process of inflammation.
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Wednesday, June 16, 1897, 9 A. M.

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**Physiology.**

1. Name the groups of food stuffs constituting the source of muscular energy; designate the most important, and state what stored product is utilized.
2. State the function of the nervus opticus, and explain by description or diagram, the distribution of the fibres composing the chiasma and the effect thereof upon vision.
3. Describe the ordinary red blood corpuscle and its functions.
4. Describe the functions of the lymphatic system.
5. Describe the minute phenomena of muscular action.

**Pathology.**

1. What blood changes occur in chlorosis, and how differentiated from leucocythaemia?
2. What structural changes are found in atheromatous arteries?
3. Describe the varieties of renal tube casts and state in what forms of kidney disease they are found.
4. Explain wherein infective inflammation differs from simple, and what the ultimate results of each type are in the parts affected.
5. Describe the common lesion of Addison's Disease.

Tuesday, December 14, 1897, 9 A. M.

**Physiology.**

1. Name the special types of food essential for the supply and maintenance of heat, force and bodily weight, and give the physiological reasons for each.
2. Summarize the function of sweating and explain the office of each physiological factor concerned.
3. Describe the functional movements of the alimentary tract.
4. Describe metabolism.
5. What is the normal proportion of blood in the human body, and how is it renewed after haemorrhage?

**Pathology.**

1. Name and describe the various forms of white cells of the blood, methods of differentiation, and their pathological significance.
  2. Name each anatomical structure involved and describe the changes occurring in tubercular arthritis.
  3. Of what is oedema symptomatic, and what are the local also principal conditions in which it occurs?
  4. Describe the pathological conditions present in peritonitis.
  5. Mention three pathological conditions which may cause suppression of the urine.
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Tuesday, June 12, 1894, 2 P. M.

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**Diagnosis and Hygiene.**

1. Differentiate gastric cancer from gastric ulcer.
2. Differentiate scarlatina, measles and roseola.
3. How would you diagnose pneumonia?
4. Differentiate peritonitis and enteritis.
5. Differentiate organic and functional heart murmurs.
6. What are the principal measures which you would employ for the prevention of the spread of infectious diseases?
7. What are the chief sources of contamination to drinking water?
8. What deleterious gases accumulate in imperfectly ventilated sleeping rooms?
9. Through what mediums is the typhoid poison usually communicated?
10. What methods would you suggest for the hygienic care of the skin.

Wednesday, October 17, 1894, 2 P. M.

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Diagnosis.

1. Differentiate coma and syncope.
2. Describe the physical signs of simple ascites and those of ovarian dropsy.
3. Differentiate compression of the brain from injury and the phenomena of alcoholism.
4. Differentiate the early eruption of syphilis and measles.
5. Differentiate thrombosis and embolism.

Hygiene.

1. Describe the proper method for lighting and ventilating school rooms.
  2. What are the proper methods for disposing of excrement and garbage in cities?
  3. What is the difference between disinfectants and germicides, and how do they severally act in preventing the spread of contagious and infectious materials?
  4. What climatic factors should govern in selecting a proper health resort for consumptives in the primary stage of the disease?
  5. What is meant by quarantine, and when and how should it be enforced?
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Wednesday, February 13, 1895, 2 P. M.

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Diagnosis.

1. Differentiate broncho-pneumonia and incipient phthisis.
2. What are the diagnostic signs of retro-pharyngeal abscess?
3. Differentiate tonic and clonic spasms.
4. Describe the characteristics and significance of the several kinds of arterial pulse.
5. Diagnosticate diabetes mellitus.

Hygiene.

1. What are the dangers from drinking water? How detected and avoided?
2. How can malarial districts be made healthy?
3. Differentiate between endemic and epidemic diseases.
4. Does change of climate require any change in food, and if so, what?
5. What are some of the dangers of the "cold bath?"

Wednesday, June 19, 1895, 2 P. M.

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**Diagnosis.**

1. Diagnosticate parenchymatous nephritis.
2. Differentiate aortic and mitral valvular diseases.
3. Differentiate acute bronchitis from acute lobar pneumonia.
4. Differentiate hemoptysis and hematemesis.
5. Differentiate rheumatism from gout.

**Hygiene.**

1. What are the most common sources of infection in diphtheria?
  2. What conditions are essential to a good water supply?
  3. Describe the necessary sanitary precautions during the prevalence of an epidemic of asiatic cholera.
  4. What is meant by "taking cold," and how can it be avoided?
  5. Describe in detail the process of cleansing a sickroom that has been occupied by a case of contagious disease.
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Wednesday, December 18, 1895, 2 P. M.

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**Diagnosis.**

1. Diagnose appendicitis from enteric fever.
2. Differentiate acute pericarditis from acute endocarditis.
3. How would you diagnose a case of rickets?
4. Differentiate variola and varicella.
5. Differentiate apoplexy from uraemic coma.

**Hygiene.**

1. What hygienic precautions should be observed in the care of the new-born child?
2. By what processes can impure water be restored to a condition of purity.
3. What gases and combination of gases are most efficient as disinfectants?
4. What hygienic precautions are necessary to insure healthy sleep?
5. What care should be employed in exhumations?

Wednesday, June 17, 1896, 2 P. M.

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**Diagnosis.**

1. Differentiate intestinal colic, uterine colic, and renal colic.
2. Give the physical signs of the most usual valvular lesion of the heart.
3. Diagnosticate acute epidemic catarrh (La Grippe).
4. Differentiate acute gastric catarrh and acute intestinal catarrh.
5. Differentiate pleurisy and pneumonia.

**Hygiene.**

1. What effect has ground air and ground water on health?
  2. What is meant by natural and acquired immunity from disease? Give an example of each.
  3. What are the hygienic requirements and the physiological effects of bathing?
  4. What are the sanitary requirements in house plumbing?
  5. What method should be employed for the disinfection of a house or about a patient contaminated with small-pox, scarlet fever, diphtheria.
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Tuesday, December 15, 1896, 2 P. M.

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**Diagnosis.**

1. Differentiate unconsciousness from apoplexy, syncope, and alcoholic intoxication.
2. Differentiate cardiac hypertrophy from cardiac dilatation.
3. Differentiate asiatic cholera from cholera morbus.
4. Diagnose a case of uraemia.
5. Differentiate heat exhaustion from sunstroke.

**Hygiene.**

1. What are the essential qualities of good disinfectants—name three examples?
2. How can malarial districts be made more healthy?
3. What precautions should a physician observe to avoid carrying contagious diseases?
4. Describe the hygiene of the mouth and teeth.
5. Describe a simple form of ventilating a sick room.

Friday, June 18, 1897, 2 P. M.

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Diagnosis.

1. What is the significance of the patellar reflex as a sign of disease?
2. Diagnose acute pericarditis.
3. Differentiate epilepsy from hysteria.
4. Differentiate neuritis and rheumatism.
5. Differentiate acute phthisis and capillary bronchitis.

Hygiene.

1. What diseases are propagated by drinking water and how can their spread be prevented?
2. Describe, in detail, the sanitary precautions necessary in typhoid fever.
3. What hygienic precautions should be employed about diphtheria?
4. Mention three satisfactory disinfectants and give indications for their use.
5. What principal hygienic directions should be given to patients suffering from tuberculosis pulmonum?

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Thursday, December 16, 1897, 2 P. M.

Diagnosis.

1. Describe three pathologic pulmonary sounds heard on auscultation and give their significance in diagnosis.
2. Differentiate aortic stenosis and aortic insufficiency.
3. Differentiate typhoid fever and remittent fever.
4. Describe four peculiar appearances of the tongue, and give their significance in diagnosis.
5. Differentiate acute rheumatism and periostitis.

Hygiene.

1. Describe a sanitary water closet where there is neither public water supply nor public drainage.
2. What hygienic principles should be observed in infant feeding?
3. What are the best methods of ventilating dwellings, and what sanitary principles are involved?
4. Describe localities to be sought or avoided by rheumatic patients.
5. What precautions should be taken in school rooms to protect the sight of scholars?

Wednesday, June 13, 1894, 9 A. M.

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Surgery.

1. Describe the courses of procedure that may be adopted in a case of strangulated hernia.
2. Describe briefly the preparation for an operative procedure in trephining.
3. What symptoms would lead you to suspect fracture at the base of the skull?
4. Name five antiseptic agents that are available in general surgery.
5. Give the diagnosis and surgical treatment of suppurative appendicitis.
6. Give the symptoms and treatment of Potts' fracture at the ankle.
7. How would you diagnose vesical calculus?
8. Describe the operation of amputation of leg at any point of election.
8. Give the diagnosis and treatment for the radical cure of varicocele.
10. Name four anesthetics and the indications for their use.

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Thursday, October 18, 1894, 9 A. M.

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Surgery.

1. What are the principal points in the diagnosis, prophylaxis and treatment of pyaemia and septicaemia?
2. How would you expose the brachial artery for ligation at the middle of the arm?
3. Give a concise description of rupture of the perineum and treatment.
4. What are the indications for the use of a drainage tube?
5. Describe the predisposing and exciting causes and symptoms of carcinoma of the breast; also give treatment.
6. Describe any one of the several dislocations of the shoulder joint, and mode of reduction.
7. What are the rules for the administration of ether and chloroform as anesthetics, with contra-indications?
8. Describe the kinds of fistulae in ano; give the symptoms and treatment.
9. Describe the symptoms and treatment of a Colle's fracture.
10. Describe the symptoms and treatment of the several forms of gangrene.



Thursday, February 14, 1895, 9 A. M.

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**Surgery.**

1. State the aseptic and antiseptic procedure essential in all operations.
  2. What is a carbuncle, and how would you treat it?
  3. Describe the operation for tracheotomy.
  4. Describe the surgical management of a case of "Potts disease of the spine."
  5. Give the causes, symptoms and operation for recto-vaginal fistula.
  6. Differentiate dislocation of the head of the femur from fracture of its neck, and give main essentials of treatment of each.
  7. Differentiate hydrocele from varicocele and give approved treatment for each.
  8. State most effective and safest methods of counteracting shock. Whether previous or subsequent to operation.
  9. Give best methods of reducing hernia, without operation.
  10. State minutely the proper treatment for an incised wound of the palm dividing all the soft tissues.
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Thursday, June 20, 1895, 9 A. M.

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**Surgery.**

1. How does nature repair a fracture?
2. Give the symptoms and treatment of transverse fracture of the patella.
3. Give the technique for cerebral operations.
4. Describe the symptoms and surgical treatment of empyemia.
5. Describe the symptoms and treatment of cystitis.
6. Give the indications for curetting the uterus, and the dangers attending the operation.
7. What surgical measures may be used to relieve dysuria.
8. Describe the methods of transfusion.
9. What are the symptoms of aneurism?
10. Describe the several methods for the radical cure of hemorrhoids.

Thursday, December 19, 1895, 9 A. M.

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**Surgery.**

1. Give the symptoms of a fracture at the base of the skull, and differentiate from drunkenness.
  2. Differentiate chancre and chancroid.
  3. Give the classification and describe the treatment of wounds.
  4. Give the varieties of dislocation of the shoulder, and, an approved method of treatment for one form.
  5. Name the principal operations for stone in the bladder.
  6. Describe the treatment, palliative and radical, for varicose veins.
  7. Describe the treatment of simple fracture of both tibia and fibula in the lower third.
  8. Describe the symptoms and treatment of sprain of the ankle joint.
  9. Give the causes and treatment of epistaxis.
  10. Describe an amputation of the forearm.
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Thursday, June 18, 1896, 9 A. M.

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**Surgery.**

1. Give the diagnosis and treatment of empyema.
2. Give the diagnosis and the prognosis of direct inguinal hernia, with palliative treatment.
3. Give concise general technique of abdominal sections for diseases of the female generative organs.
4. Give the prognosis and describe the first treatment of external burns.
5. Describe the first treatment of a compound fracture.
6. Give the symptoms, prognosis and treatment of syphilis.
7. Describe the surgical treatment of cystitis.
8. Give details of a ligation of the femoral artery.
9. State the contra indications for the administration of ether and of chloroform as anaesthetics.
10. Give surgical and medical treatment for traumatic erysipelas.

Wednesday, December 16, 1896, 9 A. M.

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**Surgery.**

1. Describe concisely the preparation of the surgeon and patient for a typical aseptic operation.
2. Give the symptoms and treatment of acute intestinal obstruction.
3. Describe the process of intubation, naming the conditions indicating its performance.
4. Give the symptoms and treatment of dislocation of the elbow; both bones backward.
5. Describe periostitis, possible results, and treatment.
6. Describe an amputation of the breast.
7. Give the symptoms and treatment of nasal polypi.
8. Give symptoms and treatment of a sprain.
9. Give the symptoms and treatment of anthrax.
10. Give symptoms and treatment of hydrocele.

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Thursday, June 17, 1897, 9 A. M.

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**Surgery.**

1. Give the symptoms and treatment of acute synovitis.
2. Name the varieties of dislocation of the knee; the special danger and modes of reduction.
3. Describe the technique of cerebral operations.
4. Detail the symptoms and treatment of a foreign body in the air passages.
5. Name the types of wounds of the abdomen; their symptoms and treatment.
6. Stricture of urethra; name varieties, with symptoms of each and treatment of first named.
7. From what causes or in what way, may death occur during the administration of an anaesthetic, and what precautions should be taken if such is threatened?
8. Give the symptoms, prognosis and treatment of hip-joint disease (morbus coxarius).
9. Describe the method of paracentesis thoracis.
10. Describe a ligation of the tibial artery.

Wednesday, December 15, 1897, 9 A. M.

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Surgery.

1. Describe the symptoms of strangulated hernia and give the non-operative treatment.
2. Describe incisions for ligating the common and superficial femoral arteries.
3. Give treatment for gunshot wound of head.
4. Name four common wounds of arteries and give treatment for same.
5. Describe the oval or Larrey's method of amputation at the shoulder joint.
6. State conditions when supra-pubic cystotomy may be preferred to perineal cystotomy.
7. Name three practical points in the management of fracture of the elbow joint.
8. Describe any one of the several dislocations of the hip joint, and mode of treatment.
9. Describe the surgical treatment of varicose ulcers.
10. Give symptoms and treatment of anklosis of the knee.

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Wednesday, June 13, 1894, 2 P. M.

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Obstetrics.

1. How would you diagnose pregnancy prior to the time of quickening?
2. What is the duration of a natural pregnancy, and within what limits may it vary? At what period does quickening usually occur?
3. What is the most common presentation and which the most frequent position of the presenting part in normal labor? Give the average duration of a natural labor.
4. How would you manage a breech presentation?
5. What course would you pursue if you found an arm-presenting?
6. What mechanical treatment would you employ in a case of retained placenta?

7. How would you manage a case of post-partum hemorrhage?
8. In applying forceps which blade should be introduced first? In what direction should traction be made when the foetal head is in the cavity of the pelvis?
9. How would you diagnose puerperal metritis, and what hygienic methods would you employ in its treatment? What is the best hygienic measure for its prevention?
10. What is the first attention required by the new born? If found asphyxiated, how would you proceed?

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Thursday, October 18, 1894, 2 P. M.

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Obstetrics.

1. What are the earliest probable signs of pregnancy, and their relative value?
2. Describe the causes, symptoms and treatment of abortion.
3. Describe the mechanism of normal labor, L. O. A. position of vertex.
4. Describe the causes, symptoms and treatment of eclampsia.
5. What are the dangers of the puerperium, and how may they be avoided.
6. Describe the process of delivering the placenta.
7. Give the diagnosis and treatment of placenta praevia.
8. Give the treatment of post partem hemorrhage.
9. Give in detail the proper care of the new born.
10. What are the uses and dangers of ergot in obstetric practice?

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Thursday, February 14, 1895, 2 P. M.

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Obstetrics.

1. What are the functions of the placenta?
2. What symptoms would lead you to think that labor had begun?
3. Name the various diameters of the foetal head?
4. What is meant by the mechanism of labor?
5. What is the normal mechanism of a mento-posterior position, and what the complications?
6. How would you treat a case of lateral presentation?
7. How would you perform version?

8. What are the causes and how would you diagnose inversion of the uterus?
9. How would you treat a case of prolapsus of the cord, and what are its dangers?
10. What would you do to prevent laceration of the perineum?

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Thursday, June 20, 1895, 2 P. M.

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Obstetrics.

1. What are the positive signs of pregnancy?
2. What are the dangers of placenta centralis, and how would you minimize them?
3. What are the sources of septic infection in the puerperal state, and how is asepsis to be secured?
4. What is ballottement, and how is it performed?
5. What are the causes of mastitis, how may it be avoided and how treated when it occurs?
6. What are the dangers in breech presentations?
7. What is the effect of a premature rupture of the membranes?
8. What is inversion of the uterus; what are its causes, and how is it recognized?
9. When should forceps be employed, and what preliminaries should be observed in their application?
10. What indications would lead you to insert a hand into the uterus, and what precautions should you observe?

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Thursday, December 19, 1895, 2 P. M.

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Obstetrics.

1. How would you treat a shoulder presentation?
2. Give the obstetric land marks of the superior and inferior straits.
3. State the causes, symptoms and treatment of puerperal convulsions.
4. What are the dangers of prolapsus of the cord? and how would you avoid them?

5. What do you understand by retained placenta? and what treatment would you employ in a given case?
  6. Define abortion, mention the dangers and give the treatment.
  7. Under what conditions would you induce premature labor? and how?
  8. What are the most frequent complications of the puerperal period?
  9. What do you understand by extra-uterine pregnancy? and how may it be diagnosed?
  10. Give the causes, and the preventive and curative treatment of ophthalmia neonatorum.
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Thursday, June 18, 1896, 2 P. M.

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#### Obstetrics.

1. What are the effects of pregnancy on the maternal organisms?
  2. What preliminary preparations are necessary for the safe conduct of labor?
  3. What are the dangers to the mother during the second stage of labor, and how can they be minimized?
  4. What changes occur at birth in the foetal circulation?
  5. How would you recognize retention of urine during labor, and how after labor? Minutely describe treatment that should be employed in each case.
  6. Give symptoms and treatment of puerperal septicaemia.
  7. Give objective and subjective signs of pregnancy.
  8. How would you treat a case of rigidity of the os uteri?
  9. Give causes and treatment of umbilical hemorrhage of the new born.
  10. Give symptoms and treatment of mastitis occurring during lactation.
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Wednesday, December 16, 1896, 2 P. M.

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#### Obstetrics.

1. How would you manage a case of puerperal convulsions, and what are the prodromic symptoms of an attack?
2. Differentiate true and false labor pains, and give symptoms indicating impending labor.

3. Give course, symptoms and treatment of mastitis.
4. Give symptoms and treatment of placenta praevia.
5. Give causes, symptoms and treatment of post-partum hemorrhage.
6. What is the "Bag of waters," its function and management during labor?
7. How should a case of non-preventable abortion be managed?
8. What are the causes, symptoms and treatment of sub-involution of the uterus?
9. What are the dangers in breech presentations, and how should they be managed?
10. Describe the placenta at term and give its functions.

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Thursday, June 17, 1897, 2 P. M.

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Obstetrics.

1. Give the distinguishing features of the female pelvis and their importance in parturition.
2. Describe the mechanism of labor in L. O. P. position.
3. In what cases would it be necessary to perform version and what would be your manipulation?
4. What is the true function of the forceps; in what complications would you use them, and what are the essential conditions of safety?
5. Name the causes and treatment of post-partem hemorrhage, and describe prophylaxis.
6. Mention the sources and treatment of puerperal septicaemia, and give in detail, prophylaxis.
7. What anaesthetic would you use in labor, in what conditions, and to what degree?
8. How would you manage a case of rigid os uteri?
9. How do you treat a face presentation, chin posterior?
10. Describe correct management of third stage of labor.

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Wednesday, December 15, 1897, 2 P. M.

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Obstetrics.

1. Give the obstetric anatomy of the foetal head.
2. How would you differentiate other abdominal tumors from pregnancy?



3. Give causes, symptoms and treatment of puerperal eclampsia during labor.

4 Give the varieties of placenta praevia, dangers, diagnosis and treatment.

5. What is the prophylactic and curative treatment of ophthalmia in the new born?

6. What is ectopic pregnancy and what are its symptoms?

7. How would you prepare the bed and how the patient for labor?

8. Give treatment, in detail, of shoulder presentations.

9. Describe cause and prevention of puerperal septicaemia, and treatment, should it occur.

10. Describe a non-rachitic "flat" pelvis, and give management of labor in such condition.

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Thursday, June 14, 1894, 9 A. M.

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Chemistry.

1. Give the characteristic differences between an acid and an alkali.

2. Describe chlorine; give its physical properties and its chemical action.

3. Give characteristic tests for arsenic, opium, copper and antimony.

4. What are the most important antidotes for arsenic?

5. What are the most important antidotes for corrosive sublimate?

6. Mention the sources and treatment of puerperal septicaemia, and albumen.

7. Give two reliable tests for diabetic sugar.

8. Describe the phenomena of electrolysis.

9. What means would you employ for the detection of carbonic acid in the air?

10. Give three antidotes for copper.

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Friday, October 19, 1894, 9 A. M.

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Chemistry.

1. What is a salt?

2. What is an atom, a molecule and an element?

3. Describe nitrogen, naming its oxygen compounds and its relation to atmospheric air.
  4. Describe the properties of ozone and its influence on respiration.
  5. How do you determine the quantity of urea in a given specimen of urine?
  6. Describe an alkaloid, naming two examples.
  7. What are the physical properties of bromine, iodine and chlorine?
  8. Differentiate an acid from an alkali.
  9. What is the atomic theory?
  10. What is the difference between mechanical mixture and chemical union?
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Friday, February 15, 1895, 9 A. M.

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Chemistry.

1. What is understood by the term specific gravity, and what substances are employed as standards?
  2. What is dialysis and how would you construct a dialyser?
  3. What do you understand by the law of definite proportions?
  4. What is hydrogen dioxide? What are its properties?
  5. What are the physical and chemical properties of phosphorus?
  6. What is the difference between the mercurous and mercuric chloride?
  7. How would you prepare chlorine? What are its physical and chemical properties?
  8. What impurities may be present in sulphuric acid, and how would you detect them?
  9. What is sulphuric ether, and what is its action upon man?
  10. How would you detect the presence of bile in the urine?
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Friday, June 21, 1895, 9 A. M.

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Chemistry.

1. Give reliable qualitative and quantitative test for albumen.
2. What is mucin? How would recognize it in urine?
3. How would you test for arsenic?
4. Describe the usual method of determining chemically the presence of blood in the urine.
5. Give a reliable qualitative and quantitative test for sugar in the urine.

Friday, December 20, 1895, 9 A. M.

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Chemistry.

1. Name one or more antidotes to carbolic acid.
  2. What are the chemical constituents of milk?
  3. Give a chemical test for bile in the urine?
  4. What is alcohol? and how is it formed?
  5. How is uric acid recognized, chemically?
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Friday, June 19, 1896, 9 A. M.

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Chemistry.

1. Name the antidotes in a case of stramonium poisoning.
  2. What is the principal pigment in normal urine?
  3. What is the chemical composition of the blood?
  4. Name the antidotes you would select to treat a case of arsenical poisoning.
  5. What are the chemical constituents of bile?
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Thursday, December 17, 1896, 9 A. M.

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Chemistry.

1. What is "hard" water, and how would you render it soft?
  2. Give two chemical tests that you would use in water supposed to be contaminated by sewage.
  3. Give the properties of oxygen.
  4. Give tests for the purity of chloroform.
  5. Explain the process of bleaching with chlorine.
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Friday, June 18, 1897, 9 A. M.

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Chemistry.

1. How is the hypobromite of soda solution prepared? Describe its use and chemical reaction as a test in urinary analysis.
2. State the most common and convenient antidotes for poisoning by mineral acids. State also the course to be pursued when the poison to be antidoted is unknown.

3. Name the most important inorganic salts found in normal urine.
  4. How would you make Fehling's solution, and how determine if a given specimen had deteriorated?
  5. What is the chemical composition of bone?
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Thursday, December 16, 1897, 9 A. M.

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Chemistry.

1. How would you determine if a specimen of human milk is up to the normal standard?
  2. What are the symptoms and treatment of a case of poisoning by potassium cyanide?
  3. What chemical change takes place in the mouth when one eats bread or potato? How can you prove that the change takes place?
  4. Give the composition of three of the most common kinds of urinary calculi.
  5. Name four of the principal "solids" of normal urine.
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STATE MEDICAL SOCIETY.

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Thursday, June 14, 1894, 2 P. M.

Therapeutics, Materia Medica and Practice.

1. Describe and treat a case of scarlet fever.
2. Give treatment of a case of acute articular rheumatism complicated with endocarditis.
3. Give symptoms, prognosis and treatment of a case of cirrhosis of the liver.
4. Describe and treat a case of tetanus.
5. What treatment is indicated in hemorrhage of bowels and perforation of bowels in course of typhoid fever?
6. Give treatment for chronic gastro-intestinal catarrh.
7. Treat a case of opium poisoning; also, give the therapeutic uses of opium.
8. Give the physiological action of digitalis, and state when its use is contra-indicated.
9. Describe the effects of a lethal dose of aconite.
10. Give the physiological action and therapeutic uses of the official preparations and derivatives of hyoscyamus.

11. Give the physiological action and therapeutic uses of nitro-glycerine.
12. Name five (5) emetics and give dose of each.
13. Define narcotics, anaesthetics and sedatives, and give an example of each.
14. Write a prescription containing oil of sandal wood and at least one other constituent for chronic cystitis.
15. Name the official preparations of belladonna and dose of those used internally.

October 19, 1894.

**Therapeutics, Materia Medica and Practice.**

1. Describe the symptoms and treatment of croupous pneumonia.
2. Give the prognosis and treatment of idiopathic erysipelas.
3. Describe the symptoms and treatment of measles.
4. Describe the treatment of ophthalmia neonatorum.
5. Give the prognosis and treatment of locomotor ataxia (tabes dorsalis).
6. Describe the physiological action of arsenic, and name three indications for its use.
7. Describe the physiological action of opium.
8. Describe the dietetic and hygienic treatment of typhoid fever.
9. Give the indications for the therapeutic use of quinia sulphate.
10. Name three conditions wherein and the reasons why veratrum viride is contra-indicated.
11. Name three indications for the use of belladonna.
12. Describe how belladonna acts when used, as stated in answer to question No. 11.
13. What condition of the eye contra-indicates the use of mydriatics?
14. Describe vaso-motor depressants with an example.
15. Describe and give the indications for the uses of cardiac sedatives, with an example.

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Friday, February 15, 1895, 2 P. M.

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**Therapeutics, Materia Medica and Practice.**

1. Give the adult dose of phosphorus, arsenious acid, tincture of belladonna and tincture of aconite.
2. Write a prescription for acute bronchitis, containing at least two ingredients.

3. Describe the physiological action of antipyrin (in medicinal doses) on the circulation and temperature.
4. How does digitalis and belladonna act in increasing blood pressure?
5. Describe the effect of a lethal dose of chloral hydrate, and its treatment.
6. What is pepsin?
7. Describe the symptoms of a case of apoplexy due to cerebral hemorrhage.
8. Describe the symptoms and treatment of a case of small-pox.
9. Describe the treatment of a case of diphtheria.
10. Name five (5) official preparations of opium, and give dose of each.
11. What remedies are employed to correct anaemic conditions?
12. Describe the treatment of the several types of eczema.
13. What treatment should be adopted in a case of heat exhaustion?
14. Name the coal tar products used to reduce temperature.
15. Describe the treatment for cholera-infantum.

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Friday, June 21, 1895, 9 A. M.

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**Materia Medica.**

1. Describe the alkaloid strychnia and give a test for determining its presence.
2. Name the official preparations of belladonna and give the dose of each.
3. What is tartar emetic and what the diaphoretic and emetic dose?
4. What are the derivatives of cinchona and their doses?
5. Describe four diuretics and give the dose of each.

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Friday, December 20, 1895, 9 A. M.

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**Materia Medica.**

1. How would you distinguish quinine from the other cinchona alkaloids?
2. Give the composition of the official compound cathartic pill.
3. Describe two safe and efficient emetics for a child, and give dose of each for a child two years old.

4. What is nitrite of amyl? Describe it, give dose and tell in what two ways it is usually administered?
  5. Describe two escharotics and tell how you would apply them.
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Friday, June 19, 1896, 9 A. M.

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**Materia Medica.**

1. Write for an adult a complete prescription for a diarrhoea mixture containing three remedies and the excipient.
2. What is wrong with the following prescription?

**R**

Argentae nitratis—Drams, one.

Sodi chloridum—Drams, four.

Syrupus lemonis—q. s., ounces, four.

Sig. Take a tablespoonful after meals in water.

Write a correct prescription containing Nitrate of silver.

3. How would you distinguish chemically between Ether and Chloroform?
  4. Give the contents of each paper of a seidlitz powder; and give product after the contents of the two papers have been mixed in solution.
  5. What is Apomorphia? How is it made, and what is the dose hypodermically as an emetic?
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Thursday, December 17, 1896, 9 A. M.

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**Materia Medica.**

1. Write a prescription for a collyrium, a suppository and a mouth wash.
2. Name the official preparations and doses of digitalis, cascara sagrada, ipecacuanha and strophanthus.
3. Name five antiseptics and tell in what proportions each should be diluted for surgical purposes.
4. How would you prepare normal salt solution, and in what three ways can you administer it in cases of excessive hemorrhage?
5. Name four efficient hypnotics and give the source and dose of each.

Friday, June 18, 1897, 9 A. M.

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**Materia Medica.**

1. By what rule would you determine the dose of any medicine for a child?
  2. What is incompatibility in medicine, and what are the different kinds of incompatibles? Give an example of each.
  3. Name ten official preparations of mercury. Name four alkaloids of opium.
  4. Give the source and dose of sparteine, eserine, picrotoxin, creosote and pix liquida.
  5. Describe cantharis and name four official preparations.
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Thursday, December 16, 1897, 9 A. M.

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**Materia Medica.**

1. In what strength would you use solutions of nitrate of silver, borax, permanganate of potassium, bichloride of mercury and creolin for injection into the bladder?
  2. Point out any mistakes in the following prescription:  
R. Potas. Chlorat.  
Tr. ferri chlor.  
Infus. Rhus glabrae, q. s.  
M. S. Use frequently as a gargle.
  3. In what forms would you prescribe eucalyptus and in what doses? Whence is eucalyptus obtained?
  4. Name four drugs incompatible with iodide of potassium; two with atropia and one with antipyrin.
  5. Name six drugs containing large quantities of tannic acid.
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Friday, June 21, 1895, 2 P. M.

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**Therapeutics and Practice.**

1. What are the symptoms and treatment of tubercular meningitis?
2. How does a lethal dose of gelsemium affect the system?
3. Give the symptoms and treatment of acute pericarditis.



4. What are the physiological effects of *veratrum viride*?
  5. Describe the general management and treatment of diphtheria.
  6. Describe the symptoms and treatment of acute dysentery.
  7. Name three indications for the use of opium.
  8. How does opium act when used as in answer to question No. 7?
  9. Give the symptoms and treatment of catarrhal pneumonia.
  10. What are the therapeutic uses of the preparations of bismuth?
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Friday, December 20, 1895, 2 P. M.

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Practice.

1. Describe the symptoms and treatment of acute inflammatory articular rheumatism.
2. Describe the symptoms of membranous croup, and state how it should be treated.
3. Give the symptoms, physical signs and treatment of acute bronchitis.
4. Name the distinctive symptoms of typhoid fever, and describe the Brandt method of treatment.
5. Give the symptoms and treatment of myo-carditis.

Therapeutics.

1. What are the physiological effects of *nux vomica* on the nervous and circulatory systems?
  2. Describe the physiological action of *veratrum viride* on the circulatory system.
  3. Name the therapeutic uses of aconite.
  4. State the direct and indirect effect of pilocarpine in dropsical effusion.
  5. Give the physiological action of *antimonii et potassii tartras*.
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Friday, June 19, 1896, 2 P. M.

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Therapeutics.

1. Describe the physiological action of belladonna.
2. Name four drugs used in the treatment of chronic interstitial nephritis.

3. Name the medicinal uses of nitro glycerine.
4. Give the therapeutic uses of caffeine.
5. Describe the physiological action of aconite.

#### Practice.

1. Give the general treatment of acute lobar or croupous pneumonia.
  2. Describe the dietetic and medicinal treatment of cholera morbus.
  3. Describe the treatment of eccentric cardiac hypertrophy where compensation has not been established.
  4. Give the general treatment for acute inflammatory rheumatism.
  5. Give the characteristic symptoms of acute tubercular or basilar meningitis.
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Thursday, December 17, 1896, 2 P. M.

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#### Practice.

1. Give the theory of the alkaline treatment of rheumatism.
2. Name the varieties and causes of intestinal obstruction.
3. Name the eruptive fevers, describing the eruptions of each; state where it first appears and the time of its appearance.
4. What are the physical signs of croupous pneumonia, and state how they differ from those of catarrhal or broncho-pneumonia.
5. What are the physical signs of mitral stenosis and aortic regurgitation as determined by auscultation?

#### Therapeutics.

1. Describe the physiological action of hyoscine, and name a physiological antidote.
2. What are the medicinal uses of hydrastis?
3. Name a vasomotor stimulant and a vasomotor depressant and describe the physiological action of each.
4. Name five important conditions for the relief of which opium may be used.
5. What are the therapeutic uses of tartar emetic?

Wednesday, June 16, 1897, 2 P. M.

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**Therapeutics.**

1. Enumerate the symptoms arising from a toxic dose of digitalis.
2. Name the therapeutic uses of apomorphia, and state how codeia differs in its physiological action from that of morphia.
3. How does belladonna differ in its physiological action from that of nitro-glycerine?
4. Describe the physiological action of salicylic acid.
5. Give the therapeutics of nitrate of silver.

**Practice.**

1. Give the cause of érysipelas and name the most usual complications.
2. Name the causes and describe the morbid anatomy and symptoms of cerebral hemorrhage.
3. Give the morbid anatomy and physical signs of acute endocarditis.
4. Mention the causes and describe the treatment of gastralgia.
5. Give the physical signs and treatment of sero-fibrinous pleurisy.

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Tuesday, December 14, 1897, 2 P. M.

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**Practice and Therapeutics.**

1. Give the symptomatology and describe the treatment of acute miliary tuberculosis.
2. Enumerate the symptoms and give the treatment of gastric ulcer; and name the various clinical forms.
3. Give the clinical types and symptoms of leukaemia; and describe the treatment.
4. Name the varieties, causes and symptoms of pyelitis.
5. Describe the symptoms and treatment of multiple sclerosis.
6. Give the physiological action of ergot, and mention its therapeutic uses.
7. What are the principal therapeutic uses of the preparations of mercury?

8. Name three drugs employed for the relief of pain, and explain how each accomplishes its result.

9. Name four drugs used in the treatment of bronchorrhoea and explain their action.

10. State the contra indications to the use of quinia.

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Homoeopathic Medical Society.

Thursday, June 14, 1894, 2 P. M.

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Therapeutics, Materia Medica and Practice.

1. From what parts of the plant are the following tinctures prepared: Cinchona, colocynthus, guajacum, phytolacca and rhus tox?

2. Name five drugs from each natural kingdom.

3. What is the minimum lethal dose of the following drugs: Atropia, arsenic, opium and choral hydrate?

4. Mention three polychrests, and give a few of the most prominent symptoms of each.

5. Give the chief mental symptoms of ignatia, arsenicum, pulsatilla, sepia and hepar.

6. Specialize the heart symptoms of cactus, digitalis and spigelia.

7. Differentiate bryonia, rhus tox, and arsenicum in typhus.

8. Mention a few remedies useful in pneumonia with indications for each.

9. Mention a few remedies useful in acute rheumatism with indications for each.

10. Give characteristic indications for three remedies useful in meningitis cereбрalis.

11. How would you direct the management of measles and its complications?

12. What remedies and general management would you employ in a case of post-partum metritis?

13. Mention three remedies useful in "morbus Brightii" with indications.

14. Mention five remedies useful in entero-colitis with indications.

15. Give an outline of the action of three remedies that affect the rectum,

Friday, October 19, 1894, 2 P. M.

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**Therapeutics, Materia Medica and Practice.**

1. How would you prepare the mother tincture of *thuja occidentalis* and the thirtieth centesimal potency of the same?
  2. What was the source of Hahnemann's *calcareo carbonica*, and its mode of preparation for homoeopathic use?
  3. Name three polychrests from the mineral kingdom and give a brief outline of the action of each.
  4. Give a brief comparison between the action of *nux vomica* and *ignatia*.
  5. Describe the usual appearance of the tongue in cases calling for *antimonium crudum*, *baptisia* and *rhus toxicodendron*.
  6. Differentiate the bowel symptoms of *croton tiglium* and *podophyllum*.
  7. Differentiate *hepar* and *silicea* in the treatment of ulcers.
  8. Give a good idea of the action on the head, of *belladonna* and *nux vomica*.
  9. Describe the mental conditions caused by *aconitum napellus*, *stramonium* and *natrum muriaticum*.
  10. Differentiate between the respective stomach symptoms of *carbo veg.* and *lycopodium*.
  11. Describe the management of a case of scarlatina.
  12. Mention a few remedies and give the general treatment of carbuncle.
  13. Mention a few important remedies for acute bronchitis.
  14. Give briefly the medical treatment and general management of acute pleurisy.
  15. What is tonsillitis? How would you recognize its different forms?
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Friday, February 15, 1895, 2 P. M.

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**Therapeutics, Materia Medica and Practice.**

1. What is the characteristic action of *nux vomica* upon the gastrointestinal tract?
2. Differentiate *phosphorus* and *arsenicum* in pulmonary affections.
3. Differentiate *bryonia* and *rhus tox.* in rheumatic affections.

4. Mention three remedies indicated in the first stage of enteric fever, and give indications for each.
5. What remedies would you employ in the treatment of condylo-meta?
6. What is the characteristic action of digitalis upon the circulation?
7. What is the characteristic action of podophyllum upon the bowels? What difference in the action of the large and small doses?
8. Mention three of the ranunculaceae important in the treatment of cerebral affections.
9. Give the characteristic indications for three remedies useful in croup.
10. How would you direct the management of a case of pneumonia?
11. How would you treat a case of infantile eclampsia? Mention three important remedies.
12. What is dysentery? What dietetic treatment should be employed?
13. Describe variola. How would you direct the management of a case, in private practice?
14. What is orchitis? How would you treat a case?
15. Mention a few remedies useful in the treatment of the different varieties of wounds.

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Friday, June 21, 1895, 9 A. M.

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#### Materia Medica.

1. Give a brief resume of the action of bryonia alba.
2. Compare the laryngeal symptoms of belladonna, bromine, and hepar s. c.
3. Differentiate hyoscyamus and rhus tox. in typhoidal conditions.
4. Compare the effects of nux vomica and lycopodium upon the gastro-intestinal tract.
5. What is cinchona? Give a few characteristic symptoms from its pathogenesis.

Friday, December 20, 1895, 9 A. M.

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**Materia Medica.**

1. Define the action of rhus tox. in fevers.
2. Give some of the most important symptoms of colchicum autumnale.
3. Give the heart symptoms of spigelia anthelmintica, and compare them with cactus gradiflorus.
4. Give an outline of the action of arsenic in large doses, and in small continued doses.
5. Differentiate the mental characteristics of nux vomica, pulsatilla, and ignatia.

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Friday, June 9, 1896, 9 A. M.

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**Materia Medica.**

1. Give mental symptoms of aconite, nux vomica, arsenic. lycopodium.
2. Give anus, rectum and stool symptoms of aloes and phosphorus; and gastric symptoms of verat. alb., arsenic; nux vomica.
3. Give cough symptoms of bryonia, hyos, borax.
4. Explain general action of lachesis and rhus toxicodendron.
5. Differentiate the restlessness of aconite, bryonia and rhus.

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Thursday, December 17, 1896, 9 A. M.

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**Materia Medica.**

1. Give the mental symptoms of cham., cina, ignitia, pulsat., platinum.
2. Give anus, rectum and stool symptoms of merc. sol., podop., scyja, sulph.; the gastric symptoms of coloc., cuprum, ipecac., lycopod.
3. For what kind of cough would you prescribe hepar, phosphor., spong., tartar-emet?

4. Explain the general action of the snake poisons.
  5. Explain attenuation and potentization of drugs according to the methods of Hahnemann.
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Friday, June 18, 1897, 9 A. M.

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**Materia Medica.**

1. Give a practical summary of the symptoms of bryonia.
  2. Give cough symptoms of tartar emetic and of spongia.
  3. Give the prominent gastric symptoms of nux vomica, pulsatilla and ipecac.
  4. Give the most prominent cerebral symptoms of belladonna, stramonium and zinc.
  5. Give prominent intestinal symptoms of aloes, gamboge and veratrum album.
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Thursday, December 16, 1897, 9 A. M.

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**Materia Medica.**

1. How do you prepare the mother tincture of a plant; what parts of the following plants are used in preparation of homoeopathic tinctures: Aconitum nap., pulsatilla nig., bryonia alb., veratrum alb., lycopodium clav.?
2. Name four principal remedies from the animal, vegetable and mineral kingdoms respectively, omitting those mentioned above.
3. Describe characteristic pains indicating apis, arsenic, belladonna and colocynth.
4. Give menstrual characteristics for calc. carb., lil. tig., nux vom., pulsatilla, and sabina.
5. Give brief summary of curative range of hepar sulph.



Friday, June 21, 1895, 2 P. M.

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**Therapeutics and Practice.**

1. Give some of the therapeutic uses of antimonium tartaricum.
  2. State some of the clinical applications of veratrum viride.
  3. Give some of the therapeutic indications for the use of calcarea phosphorica.
  4. Give outlines of three remedies useful in dysmenorrhoea.
  5. Give some indications for the use of pulsatilla, in diseases of female sexual system.
  6. Describe chronic bronchitis and its treatment.
  7. What is hydrothorax? Give its symptoms and treatment.
  8. Describe the symptoms of an acute cerebral meningitis, and give the homoeopathic indications for three remedies useful in its treatment.
  9. What is the significance of vertigo as a symptom?
  10. Describe a case of hysteria, and its management by a homoeopathic physician.
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Friday, December 20, 1895, 2 P. M.

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**Therapeutics and Practice.**

**Therapeutics.**

1. Name three remedies useful in dysentery, and define their action.
2. Give indications for the use of sepia in diseases of the female sexual system.
3. What are some of the therapeutic uses of common salt.
4. What is the chief sphere of action of graphites, and what are its leading indications?
5. Mention three important remedies in the treatment of diphtheria, giving characteristic indications for each.

**Practice.**

1. Describe the management of a case of croupous pneumonia.
2. Outline the physical features of locomotor ataxia, and name three possible remedies.
3. How would you manage a case of chronic alcoholism?
4. Describe some of the sequelae of typhoid fever.
5. State some of the causes of infantile convulsions.

Friday, June 19, 1896, 2 P. M.

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Therapeutics and Practice.

Therapeutics.

1. Give a few therapeutic indications for the use of kalibich.
2. What are the indications for aconite, belladonna and byronia in peritonitis?
3. Give therapeutic indications for the exhibition of bryonia, baptisia and rhus tox, in typhoid fever.
4. Mention five remedies available in treatment of bronchitis and give their indications.
5. Mention three remedies for acute hydrocephalus and give their indications.

Practice.

1. Describe the management of a case of periostitis.
  2. Direct diet and management of a case of diabetes.
  3. Diagnose pleurisy and state on what conditions you would form a favorable prognosis.
  4. Differentiate roseola, measles and scarlet fever.
  5. Describe a case of herpes zoster, and give treatment.
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Thursday, December 17, 1896, 2 P. M.

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Practice.

1. Describe the management of a case of otitis.
2. Direct diet and management for a case of cholera infantum.
3. In forming a prognosis in pneumonia, what symptoms do you look for?
4. Name four remedies and their indications for intestinal hemorrhage in typhoid fever.
5. What is eczema? Give indications for four remedies in its treatment.

Therapeutics.

1. In what diseases is hamamelis useful, and on what indications?
2. What are the indications for apis, for berberis, and for lycodium in renal complaints?

3. Give the therapeutic indications for the exhibition of ipecacuanha, natreum mur., eupatorium perfol., and china in malarial or intermittent fevers.
4. Mention five remedies available in treatment of pertussis and give their indications.
5. Mention three remedies for epilepsy and give their indications.

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Wednesday, June 16, 1897, 2 P. M.

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#### Therapeutics.

1. Give indications for arsenic, cinchona and nux vomica in gastralgia.
2. Give indications for colocynth, dioscorea and plumbum in enteralgia.
3. Give indications for hamamelis, ipecac and belladonna in hemorrhage.
4. Compare croton tig. and podophyllum in diarrhoea.
5. Name five reliable remedies in anaemia, with indications.

#### Practice.

1. Give an outline for a homoeopathic treatment for insomnia.
2. Give diet and treatment for gout, acute and chronic.
3. Mention four leading remedies for stomatitis, with indications.
4. Describe gastritis; state its usual causes; mention four leading remedies and give their indications.
5. Describe encephalitis; give general medical treatment.

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Tuesday, December 14, 1897, 2 P. M.

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#### Therapeutics.

1. Give three important symptoms for each of three remedies useful in acute bronchitis.
2. Mention two remedies in the treatment of exophthalmic goitre, with characteristic indications.
3. Clearly define the therapeutic indications for two remedies useful in the treatment of chlorosis.

4. What are the prominent therapeutic indications for chamomilla and for calcarea phos. in the troubles incident to the teething process in children?

5. What symptoms would lead you to prescribe cactus grandiflorus in angina pectoris, and how would you differentiate its indications from those of glonoine?

#### Practice.

1. Mention four conditions which may give rise to haematuria. State how they may be differentiated.

2. Differentiate scurvy and simple stomatitis; state some important reasons for an early diagnosis.

3. Define bronchophony. Under what conditions may it be observed, and what does it signify?

4. What symptoms would lead you to suspect lead poisoning? How would you treat such a case?

5. What is the significance of the diarrhoea in enteric fever; how should such condition be treated?

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#### Eclectic Medical Society.

Thursday, June 14, 1894, 2 P. M.

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#### Materia Medica, Therapeutics and Practice of Medicines.

1. What is the practice of medicine?

2. What is fever?

3. Give treatment for typhoid fever.

4. Give treatment for intermittent fever.

5. Give treatment for ascites. How would you treat a case of anasarca?

6. What remedy does a red, smooth tongue indicate? What class of remedies does a broad and pallid tongue indicate? What condition of tongue indicates acidity of the blood?

7. What is Materia Medica?

8. Name some of the more common antiseptics.

9. Name four of the more active cathartics.

10. Name some of the more active emetics.

11. What are diuretics? Name some of them.

12. What are alteratives, and for what class of diseases are they given?

13. Define therapeutics.

14. Give therapeutic action of podophyllin, leptandine, quinia sul., aconite, iron, opium, lobelia, apocynum and belladonna.

15. What is the therapeutic action of veratrum vir., digitalis, iodine, santonine, aloes, cimicifuga, gentian and ammonia?

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Friday, October 19, 1894, 2 P. M.

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**Therapeutics, Materia Medica and Practice.**

1. Define angina pectoris and give a treatment for an average case.
  2. What is dysentery? Treat a case.
  3. Name different forms of dropsy.
  4. Give outline of treatment for a case of ascites. For a case of anasarca.
  5. Give your management and treatment of an average case of scarlet fever.
  6. Give a course of treatment for diphtheria.
  7. Give therapeutics of sulp. of quinine and the classes of diseases in which it is indicated.
  8. What are the therapeutic uses of iodine and its salts, and in what class of diseases are they indicated?
  9. Give your opinion of the importance of water as a therapeutic agent and some of its uses in the treatment of disease.
  10. Name some of the antipyretics. Give dose of each.
  11. Name three hydragogue cathartics.
  12. Name four cholagogue cathartics.
  13. Name some of the more important diuretics.
  14. Give therapeutic action of hydrastis can.
  15. Give treatment for a case of simple pneumonia.
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Friday, February 15, 1895, 2 P. M.

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**Materia Medica, Therapeutics and Practice of Medicine.**

1. Name three of the best renal depurants.
2. Name three heart stimulants and give dose of each.
3. Name two arterial sedatives and give doses.
4. What is the difference between the effects of hydragogue and cholagogue cathartics?

5. Name six of our best alteratives.
  6. Define therapeutics.
  7. Give some of the therapeutic uses of belladonna.
  8. Give some of the therapeutic uses of veratrum vir.
  9. Give dose and therapeutic effects of jallap.
  10. Give physical properties of podophyllin and its therapeutic uses.
  11. Write prescription for a case of suspected typhoid fever, at your first visit, and give directions for its management until you see it next day.
  12. What are the conditions in a case of typhoid fever indicating the use of baptisia?
  13. Give your management of a case of acute desquamative nephritis.
  14. Give treatment of a case of puerperal peritonitis.
  15. Write a prescription for an adult case of acute inflammatory rheumatism in which the uric acid diathesis prevails.
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Friday, June 21, 1895, 9 A. M.

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#### Materia Medica.

1. What are the medicinal uses of ergot?
  2. Name three heart tonics.
  3. What are the properties of veratrum viride?
  4. What are cerebral stimulants?
  5. Name the properties and dose of aconite.
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Friday June 21, 1895, 2 P. M.

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#### Therapeutics and Practice.

1. What are the therapeutic uses of nux vomica?
2. Name a mild unirritating preparation of iron.
3. What would you do in a case of poisoning with antipyrine?
4. What does lymph represent?
5. Name the continued fevers.
6. Classify diseases of the skin.
7. What would you do in case of poisoning with chloral hydrate?

8. What are cerebral stimulants?
  9. What is the difference between a stimulant and a tonic?
  10. Give the symptoms of a case of pneumonia in its various stages, and give treatment, both general and local.
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Friday, December 20, 1895, 9 A. M.

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#### Materia Medica.

1. What are the medicinal uses of pulsatilla?
  2. What are the properties of gelseminum?
  3. What are the indications for sulph. quinine.
  4. Name a reliable heart tonic.
  5. How much is an emetic dose of lobelia?
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Friday, December 20, 1895, 2 P. M.

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#### Therapeutics and Practice.

1. Name a hydragogue cathartic?
2. How much is a dose of morphine sulph. as an anodyne?
3. How will you make an infusion of digitalis?
4. Name the principal laxatives with their doses.
5. What is eucalyptus, its preparations, actions and uses?
6. What are emetics?
7. What is the treatment of catarrhal jaundice?
8. How would you test urine for sugar?
9. Give treatment for chorea.
10. Give varieties of croup, and treatment.

Friday, June 19, 1896, 9 A. M.

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**Materia Medica.**

1. What is codeine?
  2. What are diaphoretics? Name some of them.
  3. What is Salicin?
  4. What is the name and dose of the most important alkaloid obtained from *Nux vomica*?
  5. From what is pilocarpin derived?
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Friday, June 19, 1896, 2 P. M.

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**Therapeutics.**

1. What is the action of caffeine?
2. What are the uses of *hydrastis*?
3. What is the action of *jaborandi*?
4. What are the therapeutic uses of *viburnum opulus*?
5. State the dose and the therapeutic uses of *cimicifuga racemosa*.

**Practice.**

1. What should be used for the narcosis of opium poisoning?
  2. What is your treatment for pertussis?
  3. Write a prescription for spasmodic croup.
  4. What are the indications for *nux vomica*?
  5. Give the treatment for diphtheria.
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Wednesday, June 16, 1897, 2 P. M.

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**Therapeutics.**

1. Which of the emetics are to be preferred for cases of poisoning?
2. For what condition is *apocynum cannabinum* regarded as a specific?
3. What functions are most influenced by *stillingia*?
4. What sort of a pulse indicates aconite?
5. Name some special indications for *bryonia*.



**Practice.**

1. Give the treatment of a typical case of pneumonia.
  2. How would you treat chlorosis?
  3. How would you treat insomnia produced by fever?
  4. Give treatment for case of chronic gastric indigestion.
  5. Give the symptoms and treatment of peritonitis.
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Friday, June 18, 1897, 9 A. M.

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**Materia Medica.**

1. Name the principal narcotics.
  2. What are some of the principal uterine tonics?
  3. Name as many as you can of the best anthelmintics.
  4. Give names of some of the best alteratives.
  5. Name some of the best antispasmodics.
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Wednesday, December 15, 1897, 9 A. M.

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**Materia Medica.**

1. What is the effect of nicotine?
  2. What is the action of caffeine?
  3. What is the action of acetanilid?
  4. What are the medicinal properties and uses of codeine?
  5. What are the properties and uses of passiflora incarnata?
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Tuesday, December 14, 1897, 2 P. M.

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**Therapeutics and Practice.**

1. What are the preparations and uses of cascara sagrada?
2. What are the medicinal properties and uses of echinacea?
3. What are the indications for the use of benzoic acid in urinary affections?

4. Give the treatment of enuresis (incontinence of urine) in children.
5. Give a suitable dietary for the treatment of constipation.
6. What are the medicinal uses of strophanthus?
7. Give the symptoms and treatment of a case of dyspepsia.
8. Give treatment of erysipelas, both general and local.
9. What are the best remedies for scalding urine?
10. How do you combat the high temperature in typhoid fever?

## PRELIMINARY REQUIREMENTS OF THOSE WHO EXPECT TO PRACTICE MEDICINE IN PENNSYLVANIA.

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The Medical Council Adopted the Following Rules September 24, 1895.

A preliminary examination shall be required from all candidates for medical licenses, in the following branches, to-wit: Arithmetic, grammar, geography, orthography, American history, and English composition.

The diploma of a college, diploma of an academy, seminary, normal school or high school; or a teachers' permanent certificate; or a teachers' provisional certificate (with general average of not less than two); or a students' certificate of examination for admission to the freshman class in a literary college, shall be accepted in lieu of such examination.

These requirements shall not apply to those now undergoing tuition, but shall go into effect and be operative on and after the first day of March, 1900.

Amended April 15, 1897, to read as follows:

The diploma of a college, diploma of an academy, seminary, normal school, or high school; or a teachers' permanent certificate; or a students' certificate of examination for admission to the freshman class in a literary college, shall be accepted in lieu of such examination. This amendment to go into effect March 1, 1901.

### Extent of the Examination.

The following schedule states the amount of knowledge expected by the Medical Council of those who take its examination:

Arithmetic.—Embracing notation, numeration, fundamental rules, multiples, factors, fractions, both common and decimal, ratio and proportion, percentage, denominate numbers, including metric system, mensuration, square and cube root.

Grammar.—Embracing the uses of capitals, rules for punctuation, parts of speech, declensions, the formation of plurals and possessives, distinction of gender, comparison, classification and properties of verbs, elementary knowledge of the syntax of words, and analysis of easy sentences.

Geography.—Including the outlines of mathematical, statistical, political, with some of the elements of physical, the political divisions, routes of commerce and travel, staple productions of the different sections of the United States.

**Orthography.**—Such words as are commonly used in current literature.

**American History.**—Geography of North America, the early discoverers, the character and mode of life of the natives, our forms of government, from Colonial times to the present, embracing the period of the Revolution, Declaration of Independence, Federal Constitution, successive administrations, with important events under each, general principles of civil government, civil war and general development. Special attention given to the history of Pennsylvania.

**English Composition.**—A general knowledge of the varieties in both prose and poetry.

**Sentence:** Embracing capitalization, punctuation, grammatical classifications according to form and use, words into phrases, phrases into clauses.

**Paragraph:** Uses of the paragraph, requisite in its construction, combination of miscellaneous sentences into paragraphs.

**Prose Composition:** Embracing common business forms and the principal varieties of letter-writing, transformation of poetry into prose.

**Theme:** Its form or outline, introduction, discussion, conclusion, its kind, narrative, descriptive, persuasive, or argumentative.

## RULES FOR CONDUCTING MEDICAL EXAMINATIONS.

**First.**—Help of every kind must be removed from the reach and sight of the candidate.

**Second.**—The examiner must retain the question papers securely in his own possession. Under no circumstances shall he allow any "question paper envelopes" to be opened before the exact time arrives for the examination upon that particular subject. If information relative to the examination be given to a candidate by any member of either Board of Medical Examiners it shall be the duty of the Medical Council, on ascertaining that fact, to recommend that the Governor annul the commission of such member.

**Third.**—Questions must be given out and answers collected punctually at the time specified on the program and on the question papers. Under no circumstances will papers be accepted unless the examination be actually held at the appointed time. The time for each examination paper of ten questions shall not exceed three hours.

**Fourth.**—There shall be given ten questions to each branch.

**Fifth.**—Explanations of questions and criticisms or inspection of the answer papers during the examination are positively prohibited.

**Sixth.**—No candidate shall, under any circumstances, communicate in any way with any other candidate, nor have books or helps of any kind, nor be permitted to question any examiner in reference to the meaning or interpretation of the questions under consideration, but

must rely solely upon his or her own judgment as to the meaning of each question, and on his or her own knowledge of the subject in answering. Any candidate violating this rule shall be debarred from that particular examination.

\*Seventh.—At the close of the examination in each subject each candidate must subscribe his or her name and postoffice address to the following declaration, place it in the "declaration envelope," seal the envelope, and deliver it, with his or her answer papers, to the examiners:

†"I, \_\_\_\_\_, now at the close of the examination in (naming the subject), declare that prior to this examination, I had no knowledge of the questions to be proposed, and have neither given nor received explanations or other aid in answering any of them. (Signed.)"

Every set of answers lacking this declaration and signature, however satisfactory in other respects, will be rejected ; and in no case can this omission be supplied after the papers have reached the Board of Examiners.

Eighth.—Any candidate detected in trying to give or obtain aid shall be instantly dismissed from the room, and his or her paper for the entire work canceled.

Ninth.—If any candidate withdraw himself or herself, without permission, from the sight of the examiner, his or her examination shall be closed. This rule permits a candidate, temporarily ill, to withdraw from the room and return only by the consent of the examiner.

Tenth.—No candidate shall, under any circumstances, enter the examination more than thirty minutes late, unless excused by the examiner; and no candidate shall leave the room within thirty minutes after the distribution of the question papers.

All time lost by being absent shall be deducted from the time allotted to the examination of that particular subject.

Eleventh.—The board of examiners shall begin their inspection of the answers submitted by the candidate immediately after the close of the examination, and shall complete the same with promptness and dispatch.

A correct set of answers to the questions of any one paper shall entitle the candidate to the full mark for that subject, viz: one hundred points; each full and correct answer rating ten points.

Partial or imperfect answers shall be rated by the examiners in accordance with their degree of fullness and correctness.

Twelfth.—A general average of not less than seventy-five of a possible one hundred points shall entitle the candidate to a license to prac-

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\* This rule must be read to the applicants before the examination question papers are distributed.

† Blank form of declaration must be furnished the candidates at the time of the distribution of the questions.

tice medicine and surgery in this Commonwealth; provided that he or she have otherwise complied with the law.

Thirteenth.—Handwriting of candidates must be legible.

### AN ACT

To establish a medical council and three State Boards of Medical Examiners, to define the powers and duties of said medical council and said State Boards of Medical Examiners, to provide for the examination and licensing of practitioners of medicine and surgery, to further regulate the practice of medicine and surgery, and to make an appropriation for the medical council.

WHEREAS, The safety of the public is endangered by incompetent physicians and surgeons, and due regard for public health and the preservation of human life demands that none but competent and properly qualified physicians and surgeons shall be allowed to practice their profession;

Section 1. Be it enacted by the Senate and House of Representatives of the Commonwealth of Pennsylvania in General Assembly met, and it is hereby enacted by the authority of the same: That there shall be established a medical council of Pennsylvania, consisting of the Lieutenant Governor, the Attorney General, the Secretary of Internal Affairs, the Superintendent of Public Instruction and the President of the State Board of Health and Vital Statistics, and the Presidents of the three State Boards of Medical Examiners provided for in this act.

Section 2. The said council shall be known by the name and style of the Medical Council of Pennsylvania, and may make and adopt all necessary rules and regulations and by-laws not inconsistent with the Constitution and laws of this Commonwealth, or of the United States, and shall have power to locate and maintain an office within this State for the transaction of business; five members of the said council shall constitute a quorum for the transaction of business.

Section 3. The said council shall organize at Harrisburg within ten days from the date of the organization of three boards of medical examiners, and shall elect from its own number a president and a secretary who shall also act as treasurer, both of whom shall hold their offices for one year, or until their successors are chosen.

Section 4. The members of the said council shall receive no salary, except the secretary and treasurer, who shall receive a salary of not over five hundred dollars, and who shall file with the president of the council a bond in the sum of one thousand dollars, conditioned for the faithful performance of his duties. The necessary expenses of the said council shall be paid out of the appropriation made in section sixteen of this act, and any balance remaining from the appropriation after the disbursements herein specified shall be paid into the Treasury of the Commonwealth.

Section 5. The said medical council shall hold two stated meetings in each year at Harrisburg and may hold special meetings at such times and places as it may deem proper. It shall supervise the examinations conducted by the three State Boards of Medical Examiners of all applicants for license to practice medicine and surgery in this Commonwealth, and shall issue licenses to practice medicine and surgery to such applicants as have presented satisfactory and properly certified copies of licenses from State Boards of Medical Examiners, or State Boards of Health of other States, as provided for in section thirteen of this act, or as have successfully passed the examination of one of the three State Boards of Medical Examiners, but all such examinations shall be made by the State Boards of Medical Examiners established in section six of this act. And the said Medical Council shall have no power, duty or functions except such powers, duties and functions as pertain to the supervision of the examinations of applicants for licenses to practice medicine and surgery and to the issuing of licenses to such applicants as have successfully passed the examination of one of the State Boards of Medical Examiners, or have presented satisfactory and properly certified copies of licenses from State Boards of Medical Examiners, or State Boards of Health of other States, as provided for in section thirteen of this act.

Section 6. It is further enacted that from and after the first day of March, Anno Domini one thousand eight hundred and ninety-four, there shall be and continue to be three separate Boards of Medical Examiners for the State of Pennsylvania, one representing the Medical Society of the State of Pennsylvania, one representing the Homoeopathic Medical Society of the State of Pennsylvania, one representing the Eclectic Medical Society of the State of Pennsylvania.

Each board shall consist of seven members, and each of said members shall serve for a term of three years from the first day of March next after his appointment, with the exception of those first appointed, who shall serve as follows: Two of each board for one year, two of each board for two years, and three of each board for three years, from the first day of March, Anno Domini one thousand eight hundred and ninety-four.

The Governor shall appoint the members of said boards of examiners, respectively, from the full lists of the members of the said medical society, which list shall on or before the first day of January, one thousand eight hundred and ninety-four, and annually thereafter, be transmitted to the Governor under seal and signed by the secretary of the society so nominating. From these lists of nominees respectively the Governor shall during the month of January, Anno Domini one thousand eight hundred and ninety-four, appoint three separate Boards of Medical Examiners, each board to be composed exclusively of members of the same medical society. In case of failure of any or

all of said medical societies to submit lists, as aforesaid, the Governor shall appoint members in good standing of the corresponding society or societies, entitled to nominate without other restrictions. Each one of the said appointees must be a registered physician in good standing and shall have practiced medicine or surgery under the laws of this State for a period of not less than ten years prior to such appointment.

The Governor shall fill vacancies by death or otherwise, for unexpired terms of said examiners from the respective lists submitted by the said medical societies, and may remove any member of any of said boards for continued neglect of the duties required by this act, or on recommendation of the medical society of which said members may be in affiliation for unprofessional or dishonorable conduct.

The Governor shall in his first appointments designate the number of years for which each appointee shall serve. The appointments of successors to those members whose term of office will expire on the first day of March of each year shall be made by the Governor during the month of January of such year, upon the same conditions and requirements as hereinbefore specified with reference to the appointment of three separate examining boards, each to be composed exclusively of members of the same medical school and society as hereinbefore provided.

Section 7. Said boards shall be known by the name and style of Boards of Medical Examiners of the State of Pennsylvania. Every person who shall be appointed to serve on either of said boards shall receive a certificate of appointment from the Secretary of the Commonwealth.

Each of said boards shall be authorized to take testimony concerning all matters within its jurisdiction, and the presiding officer for the time being of either of said boards, or of any of the committees thereof, may issue subpoenas and administer oaths to witnesses. Each of said boards of examiners shall make and adopt all necessary rules, regulations and by-laws not inconsistent with the Constitution and laws of this State, or of the United States, whereby to perform the duties and transact the business required under the provisions of this act; said rules, regulations and by-laws to be subject to the approval of the Medical Council of Pennsylvania established by this act.

Section 8. From the fees provided by this act the respective boards may pay, not to exceed said income, all proper expenses incurred by its provisions, and if any surplus above said expenses shall remain at the end of any year it shall be apportioned among said examiners pro rata according to the number of candidates examined by each: Provided, That the Medical Council shall keep separate accounts of all fees received from physicians applying for licenses to practice medicine or surgery and shall not devote any such fees to the use of the



council, or to the uses or remuneration of any other examining board than that of the society with which the physician who pays the fee wishes to be affiliated.

Section 9. The first meeting of each of the examining boards respectively shall be held on the first Tuesday of April, one thousand eight hundred and ninety-four, suitable notice in the usual form being given with the notice of their appointment by the Secretary of the Commonwealth to each of the members thereof, specifying the time and place of meeting.

At the first meeting of each of the boards respectively an organization shall be effected by the election, from their own membership, of a president and secretary. For the purpose of examining applicants for license each of said boards of medical examiners shall hold two or more stated or special meetings in each year, due notice of which shall be made public at such times and places as they may determine. At said stated or special meetings a majority of the members of the board shall constitute a quorum thereof, but the examination may be conducted by a committee of one or more members of the board of examiners duly authorized by said board.

Section 10. The several boards of medical examiners shall not less than one week prior to each examination submit to the Medical Council of Pennsylvania questions for thorough examinations in anatomy, physiology, hygiene, chemistry, surgery, obstetrics, pathology, diagnosis, therapeutics, practice of medicine and materia medica; from the lists of questions so submitted the council shall select the questions for each examination, and such questions for each examination shall be the same for all candidates, except that in the departments of therapeutics, practice of medicine and materia medica, the questions shall be in harmony with the teachings of the school selected by the candidate.

Section 11. Said examinations shall be conducted in writing in accordance with the rules and regulations prescribed by the Medical Council of Pennsylvania and shall embrace the subjects named in section ten of this act. After each such examination the board having charge thereof shall without unnecessary delay act upon the same. An official report of such action signed by the president, secretary, and each acting member of said board of medical examiners, stating the examination, average of each candidate in each branch, the general average and the result of the examination, whether successful or unsuccessful, shall be transmitted to the Medical Council. Said report shall embrace all the examination papers, questions and answers thereto. All such examination papers shall be kept for reference and inspection for a period of not less than five years.

Section 12. On receiving from any of said boards of medical examiners such official report of the examination of any applicant for

license, the Medical Council shall issue forthwith to each applicant who shall have returned as having successfully passed said examination, and who shall have been adjudged by the Medical Council to be duly qualified for the practice of medicine, a license to practice medicine and surgery in the State of Pennsylvania. The medical council shall require the same standard of qualifications from all candidates, except in the departments of therapeutics, practice of medicine and materia medica, in which the standard shall be determined by each of the boards respectively. Every license to practice medicine and surgery issued pursuant to this act shall be subscribed by the officers of the Medical Council and by each medical examiner who reported the licentiate as having successfully passed said examinations. It shall also have affixed to it by the person authorized to affix the same the seal of this Commonwealth.

Before said license shall be issued it shall be recorded in a book to be kept in the office of the Medical Council, and the number of the book and page therein containing said recorded copy shall be noted upon the face of said license. Said records shall be open to public inspection, under proper restrictions as to their safe keeping, and in all legal proceedings shall have the same weight as evidence that is given to the conveyance of land.

Section 13. From and after the first day of July, Anno Domini, one thousand eight hundred and ninety-four, any person not theretofore authorized to practice medicine and surgery in this State, and desiring to enter upon such practice, may deliver to the Secretary of the Medical Council, upon the payment of a fee of twenty-five dollars, a written application for license, together with satisfactory proof that the applicant is more than twenty-one years of age, is of good moral character, has obtained a competent common school education, and has received a diploma conferring the degree of medicine from some legally incorporated medical college of the United States, or a diploma or license conferring the full right to practice all the branches of medicine and surgery in some foreign country; applicants who shall have received their degree in medicine after the first day of July, one thousand eight hundred and ninety-four, must have pursued study of medicine for at least three years, including three regular courses of lectures, in different years, in some legally incorporated medical college or colleges, prior to the granting of said diploma, or foreign license, and after the first day of July, eighteen hundred and ninety-five, such applicants must have pursued the study of medicine for at least four years, including three regular courses of lectures, in different years, in some legally incorporated medical college, or colleges, prior to the granting of said diploma or foreign license. Such proof shall be made, if required, upon affidavit. Upon the making of said payment and proof the Medical Council, if satisfied with the

same, shall issue to said applicant an order for examination before such one of the State Boards of Medical Examiners as the applicant for license may select. In case of failure at any such examination the candidate, after the expiration of six months and within two years, shall have the privilege of a second examination by the same board to which application was first made, without the payment of an additional fee: And it is provided further, That applicants examined and licensed by State Boards of Medical Examiners or State Boards of Health of other States, on payment of a fee of fifteen dollars to the Medical Council, and on filing in the office of the Medical Council a copy of said license certified by the affidavit of the president or secretary of such Board showing also that the standard of acquirements adopted by said State Board of Medical Examiners or State Board of Health, is substantially the same as is provided by sections eleven, twelve and thirteen of this act, shall without further examination receive a license conferring on the holder thereof all the rights and privileges provided by sections fourteen and fifteen of this act.

Section 14. From and after the first day of March, Anno Domini one thousand eight hundred and ninety-four, no person shall enter upon the practice of medicine or surgery in the State of Pennsylvania, unless he or she shall have complied with the provisions of this act, and shall have exhibited to the prothonotary of the court of common pleas of the county in which he or she desires to practice medicine or surgery, a license duly granted to him or her as hereinbefore provided, whereupon he or she shall be entitled upon the payment of one dollar to be duly registered in the office of the prothonotary of the court of common pleas in the said county, and any person violating any of the provisions of this act shall be guilty of a misdemeanor, and upon conviction thereof in the court of quarter sessions of the county wherein the offense shall have been committed, shall pay a fine of not more than five hundred dollars for each offense.

Section 15. Nothing in this act shall be construed to interfere with or punish commissioned medical officers serving in the army or navy of the United States, or in the United States Marine Hospital service while so commissioned, or medical examiners of relief departments of railroad companies while so employed, or any one while actually serving as a member of the resident medical staff of any legally incorporated hospital, or any legally qualified and registered dentist exclusively engaged in the practice of dentistry, or shall interfere with or prevent the dispensing and sales of medicines or medical appliances by apothecaries, pharmacists, or interfere with the manufacture of artificial eyes, limbs or orthopedical instruments or trusses of any kind for fitting such instruments on persons in need thereof, or any lawfully qualified physicians and surgeons residing in other States or countries, meeting registered physicians of this State in consultation.

or any physician or surgeon residing on the border of a neighboring State and duly authorized under the laws thereof to practice medicine and surgery therein whose practice extends into the limits of this State: Provided, That such practitioner shall not open an office, or appoint a place to meet patients or receive calls, within the limits of Pennsylvania, or physicians duly registered in one county of this State called to attend cases in another county but not residing or opening an office therein. And nothing in this act shall be construed to prohibit the practice of medicine and surgery within this Commonwealth by any practitioner who shall have been duly registered before the first day of March, Anno Domini one thousand eight hundred and ninety-four, according to the terms of the act, entitled "An act to provide for the registration of all practitioners of medicine and surgery," approved the eighth day of June, Anno Domini one thousand eight hundred and eighty-one, and one such registry shall be sufficient warrant to practice medicine and surgery in any county in this Commonwealth.

Section 16. The sum of two thousand dollars is hereby appropriated out of any moneys in the State Treasury, not otherwise appropriated, for the salary of the secretary and treasurer of said medical council and the necessary expenses of said council, one thousand dollars thereof for the year beginning January one, one thousand eight hundred and ninety-four, and one thousand dollars thereof for the year beginning January one, one thousand eight hundred and ninety-five.

Section 17. All acts or parts of acts of Assembly inconsistent herewith shall be and are hereby repealed.

Approved—The 18th day of May, A. D. 1893.

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## No. 176.

### AN ACT

Making valid the diplomas of physicians, issued by any reputable college or university in another state or foreign country, which have been improperly registered under the act of Assembly approved June eighth, Anno Domini one thousand eight hundred and eighty-one, and with the same effect as if said diplomas had been legally registered under the provisions of said act.

Section 1. Be it enacted, &c., That any person heretofore having had a medical diploma issued to him by any reputable college or university in another state or foreign country, authorized by law to grant diplomas and confer degrees, and such diploma having been impro-

perly registered under the provisions of the act of Assembly approved June eighth, Anno Domini one thousand eight hundred and eighty-one, entitled "An act to provide for the registration of all practitioners of medicine and surgery," the diploma of such person be and is hereby made valid for all purposes, with the same effect as if the registry of the same had been in the form and under the requirements of said act, and the practice of medicine, on any such improperly or illegally registered diploma shall, from the date of such registry, be and the same is hereby made lawful and with the same effect as if his said diploma had been properly and legally registered under the provisions of said act: Provided, Said physician shall appear before the proper board of examiners at the next meeting after the passage of this act and shall properly qualify under existing laws.

Section 2. All laws or parts of laws inconsistent herewith are hereby repealed.

Approved—The 9th day of July, A. D. 1897.

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No. 203.

AN ACT

To amend the fourth section of an act, entitled "An act to protect the people of the Commonwealth against incompetent practitioners of medicine, surgery and obstetrics," approved the twenty-fourth day of March, one thousand eight hundred an seventy-seven, so as to require a license to be taken out by transient practitioners, who practice medicine gratuitously or so advertise, as well as those who practice for a valuable consideration.

Section 1. Be it enacted, &c., That section four of an act, entitled "An act to protect the people of the Commonwealth against incompetent practitioners of medicine, surgery and obstetrics," approved the twenty-fourth day of March, one thousand eight hundred and seventy-seven, which reads as follows:

"Section 4. Any person who shall attempt to practice medicine or surgery for a valuable consideration, by opening a transient office within this Commonwealth, or who shall, by handbills or other form of written or printed advertisement, assign such transient office or other place to persons seeking medicine or surgical advice or prescription, or who shall itinerate from place to place, or from house to house, and shall propose to cure any person sick or afflicted by the use of any medicine, means or agency whatsoever for a valuable consideration, shall, before being allowed to practice in this manner appear

before the clerk of the court of quarter sessions of the county wherein such person desires to practice, and shall furnish satisfactory evidence to such clerk that the provisions of this act have been complied with, and shall in addition take out a license for one year and pay into the county treasury for the use of such county the sum of fifty dollars therefor; whereupon it shall be the duty of such clerk to issue to such applicant a proper certificate of license on payment of the fee of five dollars for his services," be and the same is hereby amended so as to read as follows:

Section 4. Any person who shall attempt to practice medicine or surgery either for a valuable consideration or without any charge or remuneration therefor, by opening a transient office within this Commonwealth, or who shall, by handbill or other form of written or printed advertisement, assign such transient office or other place to persons seeking medicine or surgical advice or prescription, or who shall itinerate from place to place or from house to house, and shall propose to cure any person sick or afflicted by the use of any medicine, means or agency whatsoever, either for a valuable consideration or without any charge or remuneration therefor shall, before being allowed to practice in this manner, appear before the clerk of the court of quarter sessions of the county wherein such person desires to practice, and shall furnish satisfactory evidence to such clerk that the provisions of this act have been complied with, and shall, in addition, take out a license for each day and pay into the county treasury for the use of such county the sum of ten dollars therefor; whereupon it shall be the duty of such clerk to issue to such applicant a proper certificate of license on payment of the fee of five dollars for his services.

Section 2. All acts or parts of acts inconsistent herewith are hereby repealed.

Approved—The 12th day of July, A. D. 1897.

## A SUMMARY FROM THE LAWS OF THE SEVERAL STATES REGULATING THE PRACTICE OF MEDICINE.

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This summary includes only the status of the diploma, preliminary requisites and provisions for examination. All other matter, such as details, execution, fees, penalties, etc., is omitted.

### States.

**ALABAMA.**—County medical societies exist in all the sixty-six counties, and examine none but graduates of reputable medical colleges; standard of minimum requirements for collegiate instruction which determines when a college is "in good standing." Examinations of non-graduates discontinued since December 31, 1876. (1876, 1878.)

**ARKANSAS.**—County courts appoint board of medical examiners who are required to examine all applicants and determine whether they are "qualified to practice medicine and surgery."—1895.

**CALIFORNIA.**—Licenses issued on diplomas examined and passed upon as to genuineness and identification by one of the boards of examiners of the three schools. Boards have published a standard of minimum requirements which determine when a college is "in good standing." Examination of non-graduates discontinued since December 31, 1876. (1876, 1878.)

**COLORADO.**—Similar to California, except that there is but one state board of medical examiners, and no action is known to have been taken as to minimum requirements.

**CONNECTICUT.**—A certificate of registration to be issued by the State Board of Health on the diploma of a college "recognized as reputable by one of the (three) chartered medical societies of the State;" or a certificate of satisfactory examination by a committee appointed for the purpose by the State Board of Health, from said societies. (1893.)

**DELAWARE.**—Similar to Pennsylvania. Examinations on diplomas only. Competent common school education. Four years' study, including three regular courses of lectures in different years. Two boards, "President and Fellows of Medical Society of State of Delaware," and "Homoeopathic Medical Society of Delaware State and Peninsula." (1895.)

**FLORIDA.**—A certificate of satisfactory examination by the State (or a district) Board of Medical Examiners. Diplomas confer no right to practice.

**GEORGIA.**—Diploma, after three years' course, confers right to practice only after satisfactory examination by State Medical Board. There are three boards, "Regular," "Homeopathic" and "Eclectic," who may each make their own rules and regulations. Boards can only examine those "who are graduates of an incorporated college, school or university that requires three full courses of study of six months each." (1894.)

**IDAHO.**—The record of diploma at a county seat.

**ILLINOIS.**—A certificate issued by the State Board of Health upon the diploma of a legally chartered medical institution in good standing as determined by the Board; or upon a satisfactory examination by the Board. (1877, 1887.)

**INDIANA.**—The registration, in a county clerk's office, of a diploma "from some reputable medical college." (1885-1891.)

**IOWA.**—Certificates issued upon diplomas, or examination under conditions similar to Illinois requirements. (1886.)

**KANSAS.**—Diploma confers right to practice upon verification by State Board of Health as to its genuineness, standing of college and identification of holder. Non-graduates may practice upon satisfactory examination.

**KENTUCKY.**—A certificate from the State Board of Health issued upon the "diploma of a reputable and legally chartered medical college." (1893.)

**LOUISIANA.**—License issues upon diploma and examination, both to be satisfactory to one of the two medical boards, one from "The Louisiana State Medical Society" and the other from "The Hahnemann State Medical Society." The subjects for medical examination are prescribed by statute. Applicant must be "twenty-one years of age, of good moral character," and possess "at least a fair primary education." (1894.)

**MAINE.**—After January 1, 1896, State Board of Registration must examine all applicants. Examination on subjects prescribed by statute to be "elementary and practical in character." Previous to examination applicant must present satisfactory proof of "possessing a reasonable amount of average knowledge in the branches of the science he desires to practice in." (1895.)

**MARYLAND.**—Licenses issued only under seal of either Medical or Chirurgical Faculty of Maryland, or Maryland State Homoeopathic Medical Society in the form as follows:

"Be it known that \_\_\_\_\_ on the \_\_\_\_\_ day of \_\_\_\_\_ A. D., having offered us satisfactory proof that \_\_\_\_\_ was more than twenty-one years of age and had received a proper preliminary education, we therefore give a written order for the examination of said \_\_\_\_\_ before one of the boards of medical



examiners of the State of Maryland; that the said was  
fully examined before our said board and found proficient and qualified to practice medicine and surgery," etc. The proper preliminary training is defined by statute to be "a competent common school education;" "a diploma from a legally incorporated medical college" with a study of three years and attendance on three courses of lectures in different years. The boards are appointed respectively by the two medical societies; the branches are prescribed by statute. Non-graduates cannot be examined. Applicants who have been more than ten years in practice elsewhere may be licensed upon the proof presented or by special examination at the discretion of the boards of medical examiners. (1892 and amendments of 1894.)

MASSACHUSETTS.—Diploma "from a legally chartered medical college or university within (the) Commonwealth will entitle the person holding degree so conferred, *prima facie*, to registration." Board of registration rules prescribe that graduates from such colleges shall be exempt from examination, and also provide that those who present diplomas from medical schools without the State shall be given two questions, and non-graduates five on each subject of examination. (1894.)

MICHIGAN.—The record of a diploma in a county clerk's office. (1887.)

MINNESOTA.—A certificate issued upon examination by the State Board of Medical Examiners. Diplomas confer no right to practice, and only graduates can be examined. Branches for examination prescribed by statute, and Board permitted to enlarge. Examination papers peculiar to any school, to be passed upon by members of the board of that school and to be "both scientific and practical, but of sufficient severity to test the candidate's fitness to practice medicine and surgery." After January 1, 1899, four full courses of lectures, of at least twenty-six weeks each, no two in the same year, will be required. (1887. Amended 1895.)

MISSISSIPPI.—A certificate issued upon examination by the State Board of Health. Diplomas confer no right to practice. Branches prescribed by statute. Non-graduates may be examined. (1892.)

MISSOURI.—Same as Illinois. Board regulation prescribes that a college to be in good standing shall be a college in which the course of instruction is a "graded" one. (1883.)

MONTANA.—Diploma does not confer right to practice; after verification of its genuineness; proofs that its holder has attended four courses of lectures of six months each; and evidence that it was issued by a "medical school legally organized and in good standing, whose teachers are graduates of a 'legally organized school'" State Medical board shall examine—their examination to be "both scientific and

practical, but of sufficient thoroughness and severity to test candidates' fitness"—and if candidate be found qualified, issue certificate to practice. Only graduates can be examined. The branches for examination are set forth in the statute, but may be enlarged if the board deems it advisable. The board is not separated into schools. (1895.)

**NEBRASKA.**—A certificate issued by the State Board of Health upon the diploma of a legally chartered medical school or college "in good standing." (1883.) Defined by the act of 1891 as follows: "A medical school or college requiring preliminary examination for admission to its course of study, and which requires as requisite for the granting of the degree of M. D. attendance on at least three courses of lectures of six months each, no two of said courses to be held within one year, and having a full faculty of professors in all the different branches of medical education."

**NEVADA.**—The record of a diploma issued to "a graduate of any authorized college, without respect to school." (1875.)

**NEW HAMPSHIRE.**—Act of 1891 repealed a former statute; since then no legal requirements.

**NEW JERSEY.**—Diploma, domestic or foreign; competent common school education; twenty-one years age; good moral character; four years' study, three of which are to be lectures; two courses not permitted in one calendar year; and satisfactory examination before a board of five "old" school, three homeopathic and one eclectic, entitle to license. Subjects of examination prescribed by statute; homoeopathy and eclecticism, separate examinations, respectively, in materia medica and therapeutics. Licenses from other states recognized when standard of requirements is substantially the same. (1894.)

**NEW YORK.**—Diplomas confer no right to practice, except after license shall be issued upon a successful examination by one of three State Boards of Medical Examiners—Medical Society of the State of New York, Homoeopathic Medical Society of the State of New York, or Eclectic Medical Society of the State of New York. Applicant must be a graduate.

**Preliminary Training.**—A successful examination by the regents in arithmetic, elementary English, geography, spelling, United States history, English composition and physics; or graduation from a registered college, or a satisfactorily completed academical course of not less than three years in a registered academy or high school, or a preliminary education considered and accepted by the regents as fully equivalent. Regents means Board of Regents of the University of the State of New York, who issue the medical licenses under the seal of the University to applicants who have successfully passed the Board's examination, if in their judgment they are duly qualified.

Applicants examined and licensed by other state examining boards registered by the regents as maintaining standards not lower than those provided by this "article," are entitled to license. (1893.)

**NORTH CAROLINA.**—A license issued upon a successful examination by the State Board of Medical Examiners, who are appointed by "The Medical Society of the State of North Carolina." Branches prescribed by statute. Diplomas confer no right to practice. Non-graduates may be examined. (1859).

**NORTH DAKOTA.**—A license issued upon a successful examination by the State Board of Medical Examiners. Diplomas confer no right to practice.

**OHIO.**—No license required. No State Board of Medical Examiners. Before practicing medicine in any of its departments or performing surgical operations a person shall have attended two full courses of instruction and graduated from a school of medicine either in this or a foreign country, and must produce certificate of qualification from state or county medical society. Ten years' practice is a virtual compliance with this requirement.

**OREGON.**—A certificate on the diploma of a college in "good standing," or after examination by the State Board of Medical Examiners. (1891.) Amendment of 1895 not yet printed.

**PENNSYLVANIA.**—Diplomas, domestic or foreign; full age; good moral character; competent common school education; four years' study, to include three regular courses of lectures and successful examination on subjects prescribed by statute, before board of State Medical Society, Homoeopathic Medical Society or Eclectic Medical Society, entitle applicant to license. Licenses from other states confer right to license when "standard of acquirements" is substantially the same, as determined by Medical Council. The State Medical Council "supervises examinations" and issues licenses to those "who have successfully passed the examination of one of the three State boards" and to those who come properly accredited from other states.

The State Medical Council will require from all candidates for license, except those now undergoing medical tuition (1895), a preliminary examination in arithmetic, grammar, geography, orthography, American history and English composition; or in lieu thereof, a diploma of a college, diploma of an academy, seminary, Normal school or high school; or a teachers' permanent certificate, a teachers' provisional certificate, with general average of not less than two; or a students' certificate of examination for admission to the freshman class in any college. (1893.)

**RHODE ISLAND.**—"A diploma from a reputable and legally chartered medical college, indorsed as such by the State Board of Health," or "such examination as said board may require." (1895.)

**SOUTH CAROLINA.**—A certificate of verification of the diploma of a reputable medical college. The act of December 24, 1890, abolished the State Board of Medical Examiners, created by the act of 1888, and under which the diploma conferred no right to practice.

**SOUTH DAKOTA.**—A license issued by the State Board of Health after examination. Diplomas confer no right to practice. Only graduates of "lawful medical colleges," of good moral character and who have attended three full courses of medical lectures of six months each, no two full courses within the same year, are entitled to examination. (1893.)

**TENNESSEE.**—A license on the diploma of a college in "good standing," or after examination by the State Board of Medical Examiners. (1889.)

**TEXAS.**—A license issued after examination by a district board of medical examiners. Diplomas confer no right to practice. Non-graduates may be examined. (1876.)

**UTAH.**—A board of examiners is appointed from the various recognized schools of medicine. The Board issues certificates "to all who furnish satisfactory proofs of having received degrees or diplomas from chartered medical colleges in good standing and pass a satisfactory examination." (1894.)

**VERMONT.**—The registry of a diploma indorsed by one of the boards of medical censors, or a certificate of examination by one of the boards. (1880.)

**VIRGINIA.**—State medical board appointed, one from each congressional district, on recommendation of "Medical Society of Virginia," and two homoeopathic physicians nominated by the "Hahnemann Medical Society of the Old Dominion." The board is "to examine all persons who desire to commence the practice of medicine," and to issue its certificate upon "an examination satisfactory as to efficiency." (1894.)

**WASHINGTON.**—A license issued after examination by State Board of Medical Examiners. Diplomas confer no right to practice.

**WEST VIRGINIA.**—Only "such persons as shall pass an examination before the State Board of Health and shall receive certificates from said board to that effect," are entitled to practice. No definite preliminary education, either academic or professional, is required. When applicant professes the homoeopathic or eclectic school, physicians from that school of medicine shall be called to the assistance of the State Board of Health. (1895.)

**WISCONSIN.**—"Any person competent to give expert testimony in a suit at law is competent to practice medicine. The graduates of any accredited medical school are permitted to practice without

examination before a board." A penalty is prescribed for the use of the title of M. D. or Dr. by any person not a graduate of a medical school.

WYOMING.—The record of a diploma with a registrar of deeds.

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### TERRITORIES.

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ARIZONA.—Registry, with a county recorder, of an unrevoked, uncanceled "diploma, regularly issued by a medical college properly and lawfully organized under the laws of the state wherein said college shall be located."

INDIAN TERRITORY.—a. Cherokee Nation: An examination by the board of medical examiners. b. Choctaw nation: A certificate based upon a diploma or upon an examination by the board of medical examiners. c. Creek Nation: Payment of \$25 annually as a license fee.

OKLAHOMA.—A license issued by the superintendent of public health upon a medical diploma or after examination.

NEW MEXICO.—A certificate upon the diploma of a legally chartered medical institution in good standing, or on an examination by the Territorial Board of Health. (1895.)

DISTRICT OF COLUMBIA.—Nominally the indorsement of a diploma or an examination by a committee of the District Medical Society; practically no requirement.

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### RECAPITULATION.

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Diplomas confer no right to practice in:

Alabama,  
Arkansas,  
Delaware,  
Florida,  
Georgia,  
Louisiana,  
Maryland,  
Maine,  
Minnesota,  
Mississippi,  
Montana,

New Jersey,  
New York,  
North Carolina,  
North Dakota,  
Pennsylvania,  
South Dakota,  
Texas,  
Utah,  
Virginia,  
West Virginia,  
Washington,  
Massachusetts (when not from  
colleges of that state.)

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NON-GRADUATES MAY BE EXAMINED BY STATE  
BOARDS IN

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Alabama,  
Arkansas,  
Connecticut,  
Illinois,  
Iowa,  
Kansas,  
Maine,  
Massachusetts,  
Mississippi,  
Missouri,  
North Carolina,  
Oregon,  
Rhode Island,  
Tennessee,  
Texas,  
Vermont,  
Virginia,  
West Virginia.

**STATES AND TERRITORIES WITH VARIOUS REQUIREMENTS AS TO REGISTRATION, OR APPROVAL OF DIPLOMAS.**

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Arizona,  
California,  
Colorado,  
District of Columbia,  
Idaho,  
Indiana,  
Indian Territory,  
Kentucky,  
Michigan,  
Nebraska,  
Nevada,  
New Mexico,  
Ohio,  
Oklahoma,  
Oregon,  
South Carolina,  
Vermont,  
West Virginia,  
Wisconsin,  
Wyoming.

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**STATES WITHOUT LEGAL REQUIREMENTS:**

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New Hampshire.

## LIST OF MEDICAL COLLEGES.

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ALABAMA.

Birmingham Medical College, Birmingham.

## ARKANSAS.

Medical Department, Arkansas Industrial University, Little Rock.

## CALIFORNIA.

Cooper Medical College, San Francisco.

Hahnemann Hospital Medical College, San Francisco.

College of Medicine, University of California, Los Angeles.

## COLORADO.

Gross Medical College, Denver.

University of Denver Medical Department, Denver.

University of Colorado, Denver.

## CONNECTICUT.

Medical Department, Yale University, New Haven.

## DISTRICT OF COLUMBIA.

University of Georgetown Medical Department, Washington.

The National Homoeopathic Medical College, Washington.

National Medical College Medical Department of the Columbian University, Washington.

National University, Washington.

Howard University Medical Department, Washington.

\*Post Graduate School of Medicine of the District of Columbia, Washington.

## GEORGIA.

Georgia College of Eclectic Medicine and Surgery, Atlanta.

Atlanta Medical College, Atlanta.

Southern Medical College, Atlanta.

## ILLINOIS.

Hahnemann Medical College and Hospital, Chicago.

Bennett College of Eclectic Medicine and Surgery, Chicago.

Rush Medical College, Chicago.

Chicago Physio-Medical College, Chicago.

Chicago Homoeopathic Medical College, Chicago.

Dunham Medical College, Chicago.

The Hering Medical College, Chicago.

Harvard Evening Medical College, Chicago.

Chicago Medical University, Chicago.

Harvey Medical College, Chicago.

College of Physicians and Surgeons, Chicago.

Northwestern University Medical College (Chicago Medical College).

National Medical College, Chicago.

Woman's Medical College, Chicago.

\*Chicago College of Ophthalmology and Otology, Chicago.

\*Chicago Polyclinic, Chicago.

\*Post Graduate Medical School and Hospital of Chicago, Chicago.

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\*Post Graduate Institutions.



**INDIANA.**

Indiana Medical College, Indianapolis.  
Fort Wayne College of Medicine, Fort Wayne.  
American Medical College, Indianapolis.  
Physio-Medical College, Indianapolis.

**IOWA.**

Medical Department State University of Iowa, Iowa City.  
Iowa College of Physicians and Surgeons, Medical Department of Drake University, Des Moines.  
Keokuk Medical College, Keokuk.  
Homoeopathic Medical Department, State University of Iowa, Iowa City.  
Sioux City College of Medicine, Sioux City.

**KENTUCKY.**

University of Louisville.  
Hospital College of Medicine, Louisville.  
Louisville Medical College, Louisville.  
Louisville National Medical College, Louisville.  
Kentucky School of Medicine, Louisville.  
Southwestern Homoeopathic College, Louisville.  
Central University of Kentucky, Medical Department, Louisville.  
College of Medicine and Surgery, Louisville.

**LOUISIANA.**

Medical Department Tulane University of Louisiana, New Orleans.  
New Orleans Polyclinic, New Orleans.

**MARYLAND.**

Baltimore University School of Medicine, Baltimore.  
Johns Hopkins University, Medical Department, Baltimore.  
College of Physicians and Surgeons, Baltimore.  
Baltimore Medical College, Baltimore.  
University of Maryland School of Medicine, Baltimore.  
Washington University, Baltimore.  
Woman's Medical College of Baltimore, Baltimore.  
Southern Homoeopathic Medical College, Baltimore.  
Homoeopathic Medical College, Baltimore.

**MASSACHUSETTS.**

Tufts College Medical School, Boston.  
College of Physicians and Surgeons, Boston.  
Boston University School of Medicine, Boston.  
Harvard University Medical School, Boston.

**MICHIGAN.**

University of Michigan Medical Department, Ann Arbor.  
Homoeopathic Medical College of the University of Michigan, Ann Arbor.  
Detroit College of Medicine, Detroit.

**MINNESOTA.**

University of Minnesota Medical Department, Minneapolis.

**MISSOURI.**

St. Louis Medical College, St. Louis.  
St. Louis College of Physicians and Surgeons, St. Louis.  
Missouri Medical College, St. Louis.

Eclectic Medical College, St. Louis.  
 Kansas City Homoeopathic Medical College, Kansas City.  
 Marion-Sims College of Medicine, St. Louis.  
 Woman's Medical College, Kansas City.  
 St. Louis Woman's Medical College and Hospital, St. Louis.  
 University Medical College, Kansas City.  
 American Medical College (Eclectic), St. Louis.  
 Barnes Medical College, St. Louis.  
 Beaumont Hospital Medical College, St. Louis.  
 Homoeopathic Medical College of Missouri, St. Louis.

## NEBRASKA.

Medical Department, Cotner University, Lincoln.  
 John A. Creighton Medical College, Omaha.

## NEW HAMPSHIRE.

Dartmouth Medical College, Hanover.

## NEW YORK.

College of Physicians and Surgeons, New York.  
 College of Medicine, Syracuse University, New York.  
 Bellevue Hospital Medical College, New York.  
 Eclectic Medical College of the City of New York.  
 Long Island College Hospital, Brooklyn.  
 New York Medical College and Hospital for Women, New York  
 University of the City of New York Medical Department, New York.  
 University of Buffalo, Buffalo.  
 New York Homoeopathic Medical College and Hospital, New York.  
 Columbia College, New York.  
 Albany Medical College, Albany.  
 \*Drs. Ephram Cutter and Son, New York.  
 \*Mothers' and Babies' Hospital Obstetric School, New York.  
 \*New York Polyclinic Medical School and Hospital, New York.  
 \*New York Post Graduate Medical School and Hospital, New York.

## OHIO.

Eclectic Medical Institute, Cincinnati.  
 The Laura Memorial College, Cincinnati.  
 Medical Department Western Reserve University, Cleveland.  
 Toledo Medical College, Toledo.  
 Pulte Medical College, Cincinnati.  
 Cincinnati College of Medicine and Surgery, Cincinnati.  
 Cleveland University of Medicine and Surgery, Cleveland.  
 Cleveland Medical College, Cleveland.  
 Medical Department University of Wooster, Cleveland.  
 Miami Medical College, Cincinnati.  
 Columbus Medical College, Columbus.  
 Ohio Medical University, Columbus.  
 Cleveland College of Physicians and Surgeons, Cleveland.  
 Medical College of Ohio, Cincinnati.  
 Starling Medical College, Columbus.  
 Western Homoeopathic College, Cleveland.  
 College of Medicine, Lebanon.  
 \*Elsberg Nose, Throat and Ear Dispensary and Clinical School of Rhinology,  
 Laryngology and Otology, Cincinnati.  
 \*Hygiea Medical College, Cincinnati.

## PENNSYLVANIA.

Western Pennsylvania Medical College, Pittsburgh.  
Medico-Chirurgical College, Philadelphia.  
Jefferson Medical College, Philadelphia.  
University of Pennsylvania, Medical Department, Philadelphia.  
Hahnemann Medical College, Philadelphia.  
Woman's Medical College of Pennsylvania, Philadelphia.  
Philadelphia University of Medicine and Surgery.  
\*Philadelphia Polyclinic and College for Graduates in Medicine, Philadelphia.

## SOUTH CAROLINA.

Medical College of the State of South Carolina, Charleston.  
Charleston Medical School, Charleston.

## TENNESSEE.

Sewanee Medical College University of the South, Sewanee.  
Chattanooga Medical College, Chattanooga.  
Medical Department University of Tennessee, Nashville.  
Memphis Hospital Medical College, Memphis.  
Medical Department University of Nashville, Nashville.  
Medical Department Vanderbilt University, Nashville.

## VERMONT.

University of Vermont Medical Department, Burlington.

## VIRGINIA.

Medical College of Virginia, Richmond.  
University College of Medicine, Richmond.  
University of Virginia Medical Department, Charlottesville.

## WISCONSIN.

Eclectic Medical College, Milwaukee.  
Milwaukee Medical College and School of Dentistry, Milwaukee.  
Wisconsin College of Physicians and Surgeons, Milwaukee.

## FOREIGN SCHOOLS.

University of Havana, Cuba.  
Royal College of Physicians and Surgeons, Ireland.  
Royal Hungarian University, Budapest, Hungary.  
Imperial University of Warsaw, Poland.  
University of Naples, Italy.  
Trinity University Medical Department, Toronto, Ontario, Canada.  
University of Berne, Switzerland.  
University of Berlin, Germany.  
University of Bonn, Germany.  
University of Munich, Germany.  
Gale University, Montreal, Canada.  
University of Toronto, Canada.  
Western University, Ontario, Canada.  
University of Palermo, Italy.  
Royal University of Pisa, Italy.  
Regia University of Naples, Italy.  
University of Glasgow, Scotland.  
St. Petersburg Medical College, Russia.  
University of Vienna, Austria.  
University of Paris, France.

APPENDIX Q.

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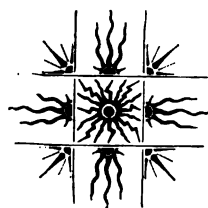
# Meteorological Observations

OF THE

## Weather Bureau

BY

T. F. TOWNSEND,  
OBSERVER AND SECTION DIRECTOR, PHILADELPHIA, PA



## JANUARY, 1897—CLIMATOLOGY OF THE MONTH.

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Atmospheric Pressure.

The mean pressure for the month, 30.16 inches, is .03 above the normal. At the United States Weather Bureau stations the highest observed was 30.75 inches, at Harrisburg, on the 31st, and the lowest, 29.45 inches at Erie, on the 17th.

## Temperature.

The means of the daily maximum and minimum temperatures, 33.4 degrees and 17.8 degrees respectively, give a monthly mean of 25.6 degrees, which is 2.1 degrees below the normal, and 2.0 degrees below the corresponding month of 1896.

The average daily range was 15.6 degrees.

The highest monthly mean was 31.2 degrees, at Philadelphia, Centennial Avenue.

The lowest monthly mean was 19.6 degrees, at Somerset.

The highest temperature recorded during the month was 74 degrees, on the 3d, at Cannonsburg.

The lowest temperature was minus 25 degrees, on the 31st at Saegerstown.

The greatest local monthly range was 86 degrees, at Saegerstown.

The least local monthly range was 53 degrees, at Philadelphia, Centennial Avenue and South Bethlehem.

The greatest daily range was 62 degrees, at Saegerstown.

## Precipitation.

The average precipitation for the month, 2.15 inches, is 1.35 inches less than the normal.

The largest totals of rainfall, in inches, were: Confluence, 3.54; Forks of Neshaminy, 3.39; Lewisburg, 3.26; Saegerstown, 3.26; Blooming Grove, 3.25; Cassandria, 3.18. The least were: Elwood Junction, 0.87; Lawrenceville, 0.90; Davis Island Dam, 1.12; Towanda, 1.21; Pittsburgh, 1.34; Dyberry, 1.36.

Average depth of snow, 11.0 inches.

The largest totals of snowfall, in inches, were: Saegerstown, 23.0; Confluence, 21.0; Cassandria, 20.5; Blooming Grove, 20.0; Edinboro, 20.0; Hallstead, 19.6.

**Wind and Weather.**

The prevailing wind was from the northwest.

Average number of rainy days, 10; clear, 8; partly cloudy, 8; cloudy, 15.

**Miscellaneous Phenomena.**

Thunderstorms.—Emporium, Franklin, Saegerstown and Warren, 17th.

Snow.—4, 5, 6, 7, 11 to 29, inclusive.

Solar Halo.—Philadelphia, Centennial Avenue, 22.

Lunar Halo.—Harrisburg, 9; Somerset, 7.

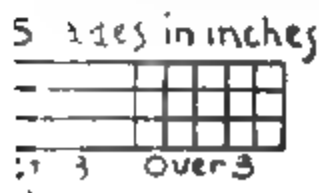
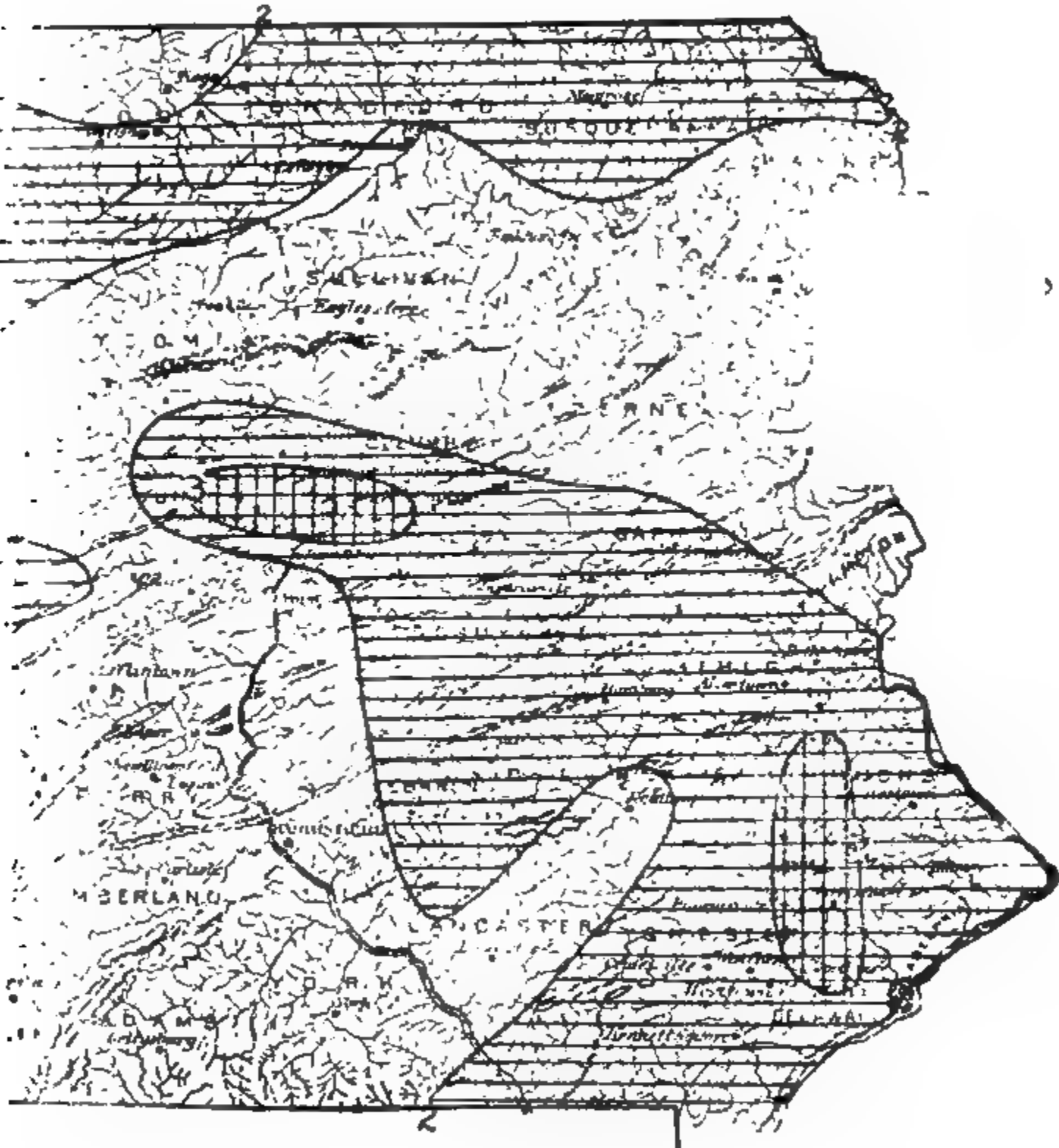
Meteors.—Swiftwater, 25.







ION. JANUARY, 1897.



U.S.A.

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## Climatological Data for Pennsylvania, January, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Prevailing direction of wind.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Altoona, .....	Blair, .....	1,151	8	24.2	-4.0	57	4	-5	25	26	2.03	-1.23	0.51	.....	11	.....	.....	.....	.....	NW
Aqueduct, .....	Perry, .....	367	7	29.0	-1.4	63	4	0	26	31	1.50	-1.56	0.36	7.3	8	9	8	14	NW	
Blooming Grove, .....	Pike, .....	.....	11	23.2	-1.3	53	4	-5	20	33	3.25	+0.53	1.13	20.0	15	2	10	19	NW	
Brookville, .....	Jefferson, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	-1.15	0.40	16.3	17	16	0	15	W	
Cannonsburg b, .....	Washington, .....	938	23	27.6	-0.7	74	3	-3	25	47	1.53	-1.63	1.15	4.3	6	8	15	6	W	
Carlisle, .....	Cumberland, .....	480	48	27.3	-0.8	64	4	4	25	31	1.77	-1.57	0.55	9.3	9	14	7	10	W	
Cassandria, .....	.....	2,100	.....	24.2	.....	54	4	-10	31	43	2.13	.....	0.63	20.5	13	2	19	10	NW	
Centre Hall, .....	Centre, .....	.....	23.5	.....	.....	54	5	-5	25	27	2.20	.....	0.80	14.0	9	9	3	19	.....	
Chambersburg, .....	Franklin, .....	1,000	33	25.0	-3.7	65	4	-3	31	33	1.84	-0.26	0.70	5.3	10	9	4	13	W	
Coatesville, .....	Chester, .....	380	8	23.2	-1.9	60	4	3	25	29	2.79	-1.62	1.13	15.0	9	16	3	13	W	
Confluence, .....	Somerset, .....	.....	21	24.2	.....	72	5	-10	31	45	2.35	-1.61	0.63	21.0	12	6	0	23	W	
Coopersburg, .....	Lehigh, .....	520	6	23.3	+0.1	53	4	3	25	39	2.62	-1.93	1.05	8.3	13	15	6	9	NW	
Derry Station c, .....	Westmoreland, .....	.....	.....	27.1	.....	61	4	-7	25	29	2.10	.....	0.53	8.5	8	6	10	12	.....	
Drifton d, .....	Luzerne, .....	.....	23.2	.....	.....	53	4	-4	25	45	1.53	.....	0.60	15.3	13	8	3	11	.....	
Dunmore, .....	Lackawanna, .....	.....	23.0	.....	.....	53	4	-6	30	36	1.54	.....	0.60	9.3	8	8	13	11	SW	
Dyberry, .....	Wayne, .....	1,100	31	22.2	+1.1	54	4	-5	31	33	1.36	-1.33	0.55	11.5	9	5	9	17	NW	
Easton, .....	Northampton, .....	.....	12	27.6	+1.6	55	4	1	23	34	1.92	-1.97	0.35	9.9	11	11	5	15	.....	
Edinboro e, .....	.....	325	13	27.6	.....	55	4	1	23	34	1.92	-1.97	0.35	9.9	11	11	5	15	SE	
Emporium, .....	.....	1,220	7	21.9	-2.6	52	3	-12	25	.....	.....	-1.23	0.74	9.2	7	6	15	10	W	
Emporium, .....	Cameron, .....	1,060	8	24.0	-3.2	53	4	-13	31	46	2.80	-2.87	0.63	.....	19	2	8	21	SW	
Erie, .....	.....	1,400	24	24.5	-3.5	62	3	-5	25	35	2.57	-0.66	0.39	.....	19	2	8	21	SW	
Forks of Neeshaminy, .....	Bucks, .....	304	7	29.4	-2.9	.....	.....	.....	.....	.....	.....	-0.46	1.60	15.5	10	14	0	17	NW	
Franklin b, .....	Venango, .....	.....	24	20.3	-3.5	60	3	-13	31	45	1.95	-2.05	0.25	13.9	14	6	9	14	SW	
Gettysburg, .....	Adams, .....	.....	27	23.3	.....	64	5	3	25	33	.....	.....	.....	4.0	.....	13	5	8	NW	
Grampian, .....	Clearfield, .....	1,450	32	21.0	-1.9	53	4	-10	30	35	2.13	-1.65	0.56	14.0	10	2	14	15	W	
Greensboro, .....	Greene, .....	.....	7	25.7	.....	65	2	-15	27	55	1.86	-1.42	0.40	7.0	14	3	6	22	NW	
Hallstead a, .....	Susquehanna, .....	.....	.....	24.0	.....	57	4	-5	20	33	2.46	.....	0.52	19.6	13	1	8	31	NW	

## Climatological Data for Pennsylvania, January, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing direction of wind.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.		Number partly cloudy days.
Hamburg, .....	Berks, .....	380	5	28.4	-0.5	59	4	2	26	28	2.60	-2.14	1.03	7.5	6	3	8	15 NW
Williamston, .....	Wayne, .....	1,600	7	23.5	-2.0	52	4	3	25	29	1.93	-2.34	0.59	13.2	15	6	3	17 W
Harriburg, .....	Dauphin, .....	351	8	27.7	-3.3	61	4	4	26	20	1.60	-1.17	0.59	10.1	10	11	4	15 W
Holidaysburg, .....	Blair, .....	947	8	25.3	-3.0	59	4	7	31	40	2.40	-1.19	0.53	10.8	13	7	5	19 W
Honesdale, .....	Wayne, .....	1,000	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntingdon, .....	Huntingdon, .....	650	8	27.0	-1.4	60	4	4	31	24	1.65	-1.95	0.74	4.8	4	5	6	20 W
Indiana, .....	Indiana, .....	1,350	3	26.8	-3.1	67	3	3	24	41	2.50	-2.14	1.30	7.3	8	11	0	20 SW
Irwins, .....	Westmoreland, .....	1,194	8	25.0	-5.5	72	3	4	24	30	1.44	.....	0.95	4.5	11	1	6	24
Johnstown, .....	Cambria, .....	275	6	29.0	-0.8	58	4	4	24	26	2.78	-1.23	1.04	11.3	11	14	3	14 NW
Kennett Square, .....	Chester, .....	413	8	25.2	-4.5	60	4	3	25	25	.....	.....	7.0	.....	.....	11	5	13 W
Lancaster c., .....	Lancaster, .....	1,006	23	23.6	.....	57	4	9	31	33	0.90	.....	0.45	4.5	3	11	9	11 SW
Lawrenceville, .....	Tioga, .....	463	8	27.5	0	61	4	4	25	23	2.28	-1.13	0.65	9.6	14	11	8	13 NW
Lebanon a., .....	Lebanon, .....	1,490	7	21.6	-2.9	55	4	5	25	30	2.13	-0.89	0.60	11.1	15	4	7	20 SW
Lehigh, .....	Union, .....	450	24	26.5	-2.0	60	4	1	31	33	3.26	+0.78	1.04	11.5	7	7	7	17 W
Lock Haven, .....	Clinton, .....	560	8	27.6	-0.4	61	5	2	25	30	1.66	-1.90	0.76	9.0	7	7	8	16 W
Lycippus, .....	Westmoreland, .....	1,420	3	25.4	-3.3	66	5	9	26	38	2.43	-0.83	0.51	16.0	15	.....	.....	.....
Mauch Chunk, .....	Carbon, .....	550	6	25.6	-2.1	53	4	1	25	32	2.96	-0.19	1.05	9.2	11	14	3	14 N
Philadelphia, .....	Philadelphia, .....	117	26	30.6	-1.4	61	4	7	26	26	2.17	-1.21	0.98	7.8	11	10	7	14 NW
1529 Centennial avenue, .....	Philadelphia, .....	120	5	31.2	-0.8	61	4	8	26	20	2.25	-1.76	1.11	9.3	11	12	7	13 NW
Pittsburgh, .....	Allegheny, .....	943	26	37.0	-5.0	60	3	7	25	33	1.34	-1.77	0.27	10.6	15	3	13	15 W
Pottstown, .....	Montgomery, .....	150	8	23.0	-2.4	60	4	4	25	26	2.90	-0.55	1.30	14.0	7	21	1	9 W
Quakertown, .....	Bucks, .....	536	21	26.4	-0.6	57	4	3	25	33	3.01	-0.44	1.10	13.0	8	12	7	13 NW
Reading a., .....	Berks, .....	380	23	27.4	-2.7	.....	.....	.....	.....	.....	1.69	-1.99	0.90	.....	11	.....	.....	.....
Renova, .....	Clinton, .....	.....	25	25.2	.....	63	4	5	31	38	2.01	.....	0.55	9.1	9	11	6	14
Saegertown, .....	Crawford, .....	1,200	4	21.2	-1.0	61	3	35	31	63	3.76	-0.63	0.46	21.0	16	3	3	16 NW

Station	741	25.7	53	4	0	25	30	1.43	0.45	7	4	6	21	W
Scranton, .....	741	25.7	53	4	0	25	30	1.43	0.45	7	4	6	21	W
Sellingrove, .....	455	7	27.5	56	1	26	23	1.85	-1.33	8	5	17	9	SW
Shingle House, .....	1,475	23.0	56	4	-16	31	54	2.42	1.11	6	3	8	30	NW
Snicker, .....	60	25.0	60	4	-1	31	40	3.07	0.90	7	14	6	11	NW
Skippack, .....	1,500	21.9	57	4	-16	31	52	1.60	2.55	6	5	12	14	W
Smithport, .....	2,250	39	50	2	-13	25	33	2.01	-0.08	10	0	13	18	NW
Somerset, .....	333	19	56	4	3	26	22	1.85	-1.47	6	16	6	9	W
South Bethlehem, .....	660	26.5	57	4	3	25	24	1.89	-1.30	9	9	6	16	NW
South Eaton, .....	1,191	23.0	59	4	-5	26	26	2.21	-0.81	13	4	8	13	W
State College a, .....	.....	21.3	58	4	-9	25	23	1.89	.....	6	2	6	23	W
St. Marys, .....	190	23.6	59	4	6	25	20	2.39	-0.87	7	10	12	9	NW
Swatmore, .....	.....	19.9	42	18	-3	26	24	2.46	.....	6	9	2	6	NW
Swiftwater n, .....	754	26.2	58	4	1	25	26	1.21	.....	8	7	11	13	NW
Towanda, .....	681	23.0	63	3	-6	25	23	1.23	0.47	6.5	3	7	11	SW
Uniontown, .....	7	23.2	59	3	-13	31	51	2.37	-2.05	11	8	11	12	SW
Warren, .....	1,327	24.1	64	4	-3	25	30	2.23	-0.30	16	9	3	19	NW
Wellboro, .....	455	23.6	58	4	4	26	21	2.33	-2.13	7	7	4	20	S
West Chester, .....	350	24.3	57	4	4	25	31	2.64	-2.09	13	15	1	14	W
Westtown b, .....	1,250	24.2	54	4	4	31	37	1.90	-2.13	9	13	4	13	NW
White Haven, .....	575	23.1	61	4	-4	25	29	1.40	.....	9	6	19	7	NW
Wilkes-Barre, .....	530	25.3	60	4	3	25	29	1.40	-2.43	4	11	8	12	W
Williamsport, .....	385	27.9	62	4	0	25	23	1.45	-1.63	7	15	5	11	W
York, .....	.....	-1.6	63	4	1	21	31	1.55	-1.52	10	14	6	11	NW

\*Extremes of temperature from observed readings of dry thermometers.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.

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Maximum and Minimum Temperatures for Pennsylvania, January, 1897.

Sections.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	42	30	44	35	54	30	57	38	40	38	26	11	32	13	27	17	44	18	42	26	34	25
Aqueduct, .....	40	34	43	36	50	40	63	52	52	31	31	19	34	17	35	14	43	17	42	23	32	27
Blooming Grove, .....	32	13	40	24	46	23	53	41	53	33	35	13	27	14	23	7	32	10	23	27	23	26
Brookville, .....																						
Cannonsburg, .....	60	29	64	33	74	45	.....	.....	44	17	21	10	42	9	48	25	51	25	49	30	34	23
Carlisle, .....	35	29	40	21	47	36	64	45	53	32	32	17	33	22	37	15	43	17	47	23	33	23
Cassandria, .....	44	39	49	40	54	40	56	39	39	23	23	9	29	15	36	13	42	25	33	23	29	26
Centre Hall, .....	39	25	40	32	51	33	55	43	56	29	33	11	27	13	33	13	18	23	19	40	31	23
Chambersburg, .....	35	25	40	28	50	23	65	40	56	31	34	15	33	17	33	13	44	13	44	23	27	19
Coatesville, .....	41	22	41	28	47	33	60	40	51	35	35	21	39	21	37	17	43	15	49	23	44	30
Confluence, .....	52	25	50	28	55	39	60	30	72	27	27	13	31	14	32	13	37	20	42	29	43	32
Coupsburg, .....	39	23	45	33	48	36	56	42	53	34	24	20	43	23	48	19	47	18	46	30	43	30
Derry Station, .....	48	30	50	35	60	35	61	48	60	31	33	13	21	15	31	19	29	24	42	15	35	27
Drifton, .....			41	20	.....	.....	.....	.....	53	35	30	13	28	19	34	20	43	35	.....	.....	43	10
Dunmore, .....	44	32	45	34	53	35	53	43	52	33	33	22	31	23	35	20	40	14	50	36	34	30
Dyberry, .....	31	13	40	31	50	31	54	43	43	34	34	17	29	14	33	10	38	9	38	18	23	19
Easton, .....	42	20	45	32	46	36	55	43	55	32	41	21	33	22	33	21	33	16	41	31	39	30
Emporium, .....	45	30	46	33	56	30	59	39	39	25	26	12	25	17	34	14	40	13	41	33	33	27
Erie, .....	51	35	61	46	62	46	57	33	32	16	37	14	24	16	32	20	40	23	34	29	33	23
Franklin, .....												9	26	16	35	15	42	17	34	25	32	24
Gettysburg, .....	47	31	52	30	50	34	58	46	64	39	45	18	31	17	34	13	35	17	49	23	46	32
Grampian, .....	44	34	42	34	52	32	58	34	34	13	20	8	20	14	32	14	36	26	38	24	30	22
Greensboro, .....	54	23	65	24	64	31	56	24	43	34	18	13	33	13	40	20	43	24	40	25	34	20
Halstead, .....	40	17	41	35	52	37	57	49	55	27	32	18	31	17	31	11	37	10	38	30	33	25
Hamburg, .....	37	26	43	34	43	33	59	46	46	35	35	13	33	22	37	23	40	17	43	33	37	30
Hamilton, .....	33	20	39	30	51	33	53	45	51	31	33	18	37	19	30	15	37	16	34	30	35	23
Harrisburg, .....	36	30	43	33	50	37	61	42	42	30	29	13	32	23	24	13	42	23	43	31	34	29
Hollidaysburg, .....	45	28	46	35	55	38	59	40	43	24	26	12	33	19	36	15	45	17	44	27	33	23
Honesdale, .....																						
Huntingdon, .....	46	29	44	33	55	33	60	50	60	28	33	15	31	21	37	14	45	13	46	23	26	30
Indiana, .....	64	33	66	44	67	52	61	43	59	9	21	11	29	16	43	21	39	23	33	25	23	19

Irwin, .....	54	34	60	41	73	57	59	31	41	10	25	22	41	20	43	33	46	36	45	30	30	25
Johnston, .....	49	35	52	36	63	33	60	40	40	22	22	11	33	19	34	18	42	23	40	28	34	26
Kennett Square, .....	40	25	44	23	50	34	53	42	55	35	37	21	36	18	39	19	42	16	48	26	43	21
Lancaster, .....							60	42	44	18	30	18	31	15	34	16	48	13	44	24	39	20
Lawrenceville, .....	40	13	42	35	54	34	57	31	36	30	30	14	31	22	30	9	36	13	33	31	33	24
Lebanon, .....	36	26	43	32	48	38	61	48	46	26	35	13	31	22	38	15	41	13	44	23	38	27
Le Roy, .....	38	22	45	30	51	33	55	46	45	26	12	24	18	29	11	34	14	34	23	32	24	24
Lewisburg, .....	47	24	45	35	49	35	60	39	55	31	32	16	33	19	36	15	40	15	41	30	38	28
Lock Haven, .....	50	36	46	33	53	30	60	50	51	31	31	9	34	21	40	15	42	17	46	36	39	29
Lycippus, .....	47	36	51	40	60	46	60	48	66	28	35	10	22	12	30	13	37	25	42	30	35	26
Mauch Chunk, .....	35	19	44	32	47	36	53	44	48	28	17	33	19	39	11	41	11	40	29	36	27	21
Philadelphia a, .....	37	29	45	34	44	36	61	48	55	37	37	24	37	24	37	37	38	26	46	31	43	33
Philadelphia b, .....	41	28	43	35	44	35	61	48	56	40	43	25	38	25	37	25	39	23	48	30	43	31
Pittsburgh, .....	55	33	61	40	63	44	61	41	36	23	23	13	33	15	33	25	45	27	35	32	32	29
Pottstown, .....	38	26	39	35	46	36	60	44	46	30	30	23	34	24	30	19	42	18	44	20	40	28
Quakertown, .....	36	20	43	31	47	34	57	36	48	34	34	19	33	19	37	16	40	13	44	25	40	25
Renova, .....	42	26	44	31	57	32	63	32	41	20	30	14	29	17	37	15	42	17	43	31	34	26
Saegertown, .....	50	32	61	37	61	37	53	30	41	19	19	5	25	11	37	3	40	6	39	27	34	22
Scranton, .....	39	23	43	34	48	34	58	48	55	35	36	18	31	23	35	15	37	13	38	32	37	29
Seisingrove, .....	56	41	50	39	50	40	52	42	43	30	30	14	33	17	33	13	43	13	42	30	38	25
Shingle House, .....	44	30	46	28	46	30	56	30	42	26	31	9	36	6	34	4	44	9	38	20	34	34
Skippack, .....	36	13	44	34	48	34	60	40	55	30	36	20	35	19	38	14	43	20	46	13	40	20
Smethport, .....	45	26	46	35	57	34	57	41	41	24	24	7	20	16	38	6	38	12	32	28	30	24
Somerset, .....	40	28	50	30	46	38	42	32	38	20	20	8	30	12	35	12	30	14	32	15	30	20
South Bethlehem, .....	46	24	42	21	50	32	56	42	51	35	40	24	32	21	36	20	41	19	48	26	51	30
South Eaton, .....	38	20	41	35	53	38	57	47	56	29	54	25	32	20	36	13	39	13	40	33	37	28
State College, .....	38	25	41	20	54	32	59	41	47	26	36	11	29	17	34	15	41	19	41	30	33	26
St. Marys, .....	43	30	44	34	55	30	58	39	39	23	22	7	24	14	32	10	38	19	35	24	35	13
Swarthmore, .....	40	28	44	33	53	37	59	41	47	25	30	23	33	23	35	19	37	19	46	26	41	24
Swiftwater, .....																						
Towanda, .....	39	21	41	36	54	36	58	50	50	31	31	16	28	21	32	12	33	12	37	23	36	23
Uniontown, .....	57	39	59	39	68	42	62	40	40	24	14	14	33	19	38	18	44	30	41	33	33	25
Warren, .....	45	32	48	35	59	37	57	48	45	25	38	8	22	11	38	11	32	10	40	30	33	27
Weissboro, .....	42	20	44	32	56	36	64	46	46	28	28	10	35	16	37	8	38	10	38	26	34	24
West Chester, .....	28	36	43	30	47	35	58	44	55	37	38	21	34	21	35	23	40	19	43	28	40	26
Westtown, .....	37	21	42	28	47	34	57	42	44	35	36	20	33	19	34	21	47	16	39	22	39	25
White Haven, .....	24	15	40	31	46	34	54	41	53	28	35	15	27	19	33	11	36	10	37	30	32	25
Wilkes-Barre, .....	53	24	35	35	57	33	61	48	58	35	40	29	39	22	35	17	44	17	44	30	40	29
Williamsport, .....	38	26	40	35	50	33	60	49	49	30	30	15	30	21	36	13	40	18	39	32	34	29
York, .....	37	29	54	31	56	36	62	47	57	36	36	18	30	22	34	14	41	16	46	20	41	23





Irwin, .....	34	20	30	20	36	32	28	36	44	40	56	32	34	22	27	28	44	37	38	32	41	17
Johannston, .....	26	16	24	0	30	22	26	26	40	26	46	30	36	24	24	16	31	7	28	32	40	30
Kennett Square, .....	34	21	28	9	27	20	24	27	48	24	38	25	50	31	33	17	30	13	43	24	44	30
Lancaster, .....	31	10	24	13	27	22	28	24	38	25	44	31	41	17	24	15	43	17	42	21	44	30
Lawrenceville, .....	30	11	24	0	30	17	35	28	37	23	40	33	41	21	23	2	26	-1	39	24	36	19
Lebanon, .....	31	21	24	10	36	22	.....	.....	36	28	38	29	42	21	28	7	30	11	41	30	40	28
Le Roy, .....	24	8	20	0	24	16	34	20	36	29	39	29	31	16	11	-1	15	1	40	22	32	21
Lewisburg, .....	30	17	22	9	31	20	22	26	35	26	39	33	43	25	31	13	26	10	39	24	37	28
Lock Haven, .....	34	15	30	6	32	18	34	26	34	29	35	30	45	25	37	12	26	9	39	23	37	27
Lycippus, .....	32	30	26	11	30	19	35	27	34	28	43	33	55	27	27	14	42	14	42	36	36	27
Mauch Chunk, .....	27	17	22	7	29	19	31	24	35	38	37	35	43	28	23	9	24	4	41	32	40	29
Philadelphia a, .....	29	21	27	15	31	23	31	28	42	31	49	34	51	27	27	16	40	15	45	35	46	35
Philadelphia b, .....	34	25	26	14	29	23	28	41	41	47	54	50	33	32	32	19	35	15	49	34	45	33
Pittsburgh, .....	27	22	30	15	35	26	42	29	43	31	53	38	38	23	26	19	40	19	44	31	40	30
Pottstown, .....	32	22	30	12	28	22	34	26	40	28	33	23	40	28	28	16	28	12	44	36	42	32
Quakertown, .....	27	16	23	8	28	20	32	23	37	27	48	18	41	30	30	12	20	7	44	24	42	30
Renova, .....	28	11	22	4	32	21	35	24	36	24	44	34	42	23	24	10	28	8	56	37	37	27
Seagertown, .....	17	3	23	-7	30	18	26	2	35	11	44	30	40	13	34	8	30	-4	37	25	34	20
Seranton, .....	31	15	21	6	28	18	31	24	35	29	38	23	44	23	35	6	25	5	42	24	38	28
Sellingrove, .....	33	13	25	9	48	15	36	24	35	28	48	35	37	17	30	12	36	10	40	23	37	15
Shingle House, .....	23	10	23	-9	28	10	24	12	44	14	38	23	45	15	21	-1	20	-4	36	23	34	24
Slippack, .....	31	20	25	8	30	22	33	27	39	20	42	36	50	30	32	12	31	10	45	31	45	30
Smetport, .....	24	12	21	-5	29	18	39	23	38	20	39	33	33	16	20	2	20	-5	37	22	32	21
Somerset, .....	27	20	22	-5	25	20	30	20	33	23	36	32	40	20	22	18	28	8	30	20	35	23
South Bethlehem, .....	35	20	32	22	34	18	30	20	42	31	43	32	42	31	30	13	30	8	39	24	36	24
South Eaton, .....	30	9	20	8	28	20	32	26	35	29	37	31	36	23	25	9	37	4	43	27	39	27
State College, .....	27	15	20	5	25	17	32	24	.....	.....	39	31	40	22	22	10	25	10	34	23	35	24
St. Marys, .....	33	10	36	-3	30	17	35	25	35	35	40	32	32	19	19	7	25	1	36	30	34	21
Swarthmore, .....	30	13	28	13	30	24	36	29	43	30	49	37	42	31	24	16	46	16	46	33	44	21
Swiftwater, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Towanda, .....	23	12	20	5	28	17	30	21	32	24	38	22	42	22	22	4	20	20	38	20	36	20
Uniontown, .....	28	17	32	9	27	30	36	31	42	34	55	39	39	20	27	20	38	18	37	35	37	29
Warren, .....	27	12	23	-2	27	18	40	19	39	25	41	34	40	20	20	8	28	0	35	35	34	23
Wellisboro, .....	26	10	25	0	24	26	28	24	40	23	35	30	32	10	22	0	26	6	33	30	40	24
West Chester, .....	31	22	24	12	29	21	32	26	40	29	42	48	27	29	16	34	13	46	34	42	42	32
Westtown, .....	30	22	23	9	28	21	32	27	38	29	43	25	34	28	28	15	33	12	45	33	42	32
White Haven, .....	33	12	23	5	23	15	29	24	33	20	35	28	46	21	20	5	24	1	40	24	36	25
Wilkes-Barre, .....	35	13	23	9	30	21	35	26	35	29	45	30	45	25	29	9	26	8	45	27	42	17
Williamsport, .....	39	17	22	8	32	20	33	27	36	29	48	31	36	24	24	10	25	10	38	26	37	28
York, .....	30	21	25	10	28	22	31	27	36	27	43	28	40	29	29	19	23	15	42	32	44	30



Irwin, .....	24	19	20	-4	17	-1	21	9	19	5	13	11	12	17	30	0	42	12	37.4	23.5
Johnstown, .....	30	12	20	7	5	-5	12	-2	19	1	8	0	20	6	26	10	32	-8	32.6	17.4
Kennett Square, .....	41	22	29	17	19	4	26	6	22	10	21	12	25	10	35	12	33	17	37.6	20.5
Lancaster, .....	42	22	26	4	22	2	21	4	24	10	16	8	25	11	29	8	33	10	37.7	16.6
Lawrenceville, .....	36	16	18	8	10	-5	15	4	20	0	13	9	25	10	23	17	23	-9	31.6	15.5
Lebanon, .....	37	21	25	13	14	4	22	4	20	10	15	10	27	10	31	14	24	6	34.5	20.5
Le Roy, .....	23	12	15	1	5	-5	13	-2	16	0	15	7	22	7	20	12	26	8	23.4	14.9
Lewisburg, .....	34	13	27	6	13	1	21	1	16	5	17	9	25	10	32	9	32	-1	34.6	12.4
Lock Haven, .....	37	12	27	10	21	-3	20	0	17	5	19	10	23	10	37	23	33	3	36.1	19.2
Lycippus, .....	40	11	20	11	22	-9	4	-9	5	-4	10	-2	8	-1	13	6	32	-2	33.3	18.0
Mauch Chunk, .....	29	17	24	12	11	1	25	7	24	7	17	12	23	10	31	13	37	5	32.9	15.2
Philadelphia a, .....	40	24	28	12	14	7	25	7	24	14	24	13	28	13	31	17	36	13	37.2	24.1
Philadelphia b, .....	42	25	29	21	21	8	27	8	23	15	23	14	31	13	33	15	34	14	33.0	24.5
Pittsburgh, .....	23	13	22	4	4	-7	10	-5	13	4	10	0	17	6	25	11	33	6	34.0	20.0
Pottstown, .....	32	22	26	14	16	4	24	4	24	11	11	13	26	16	35	15	35	9	34.2	21.9
Quakertown, .....	30	20	25	17	17	3	23	3	23	10	13	12	27	10	31	6	34	5	34.4	18.4
Renova, .....	32	12	21	5	8	-2	20	-1	17	3	16	8	22	9	31	8	33	-5	33.7	16.7
Saegertown, .....	24	10	23	2	20	-14	6	-10	7	-11	13	-5	19	-3	25	9	37	-25	32.4	9.9
Scranton, .....	28	19	22	9	13	0	17	1	20	8	19	13	25	10	27	8	31	1	33.8	13.6
Selinsgrove, .....	29	18	29	7	10	2	10	-1	34	10	20	3	30	6	36	17	36	10	36.1	19.1
Shingle House, .....	32	4	30	4	6	-6	13	-3	16	0	23	3	24	5	25	11	33	-16	33.7	11.2
Skipack, .....	35	19	26	12	19	4	25	5	24	12	25	11	29	15	34	10	39	-1	36.7	19.2
Smethport, .....	21	12	15	3	6	-8	15	-4	19	0	11	3	18	3	28	12	36	-16	30.4	13.4
Somerset, .....	28	7	22	12	3	-12	-2	-10	5	-5	8	-5	0	-6	-15	-6	20	-8	26.7	12.5
South Bethlehem, .....	34	20	33	13	13	6	16	3	22	14	24	13	32	11	34	17	37	17	36.7	21.3
South Eaton, .....	35	17	23	13	14	3	23	6	17	7	18	12	25	13	25	14	30	9	33.6	19.4
State College, .....	33	12	15	2	6	-4	11	-5	11	1	11	4	16	1	25	12	26	0	30.3	15.7
St. Marys, .....	21	12	17	-2	1	-9	10	-8	13	0	7	3	15	0	22	10	32	3	29.3	14.2
Swarthmore, .....	30	24	30	6	13	6	23	7	23	15	18	12	27	14	31	15	32	13	36.8	21.4
Swiftwater, .....	35	16	21	11	10	0	20	-2	23	10	19	13	24	11	22	14	29	5	37.0	13.8
Towanda, .....	25	21	21	15	11	1	20	5	13	5	11	25	12	24	13	26	6	31.5	13.9	
Uniontown, .....	29	15	20	10	10	-6	13	-6	15	-1	10	0	17	6	26	12	41	3	35.1	20.9
Warren, .....	32	15	19	5	5	-9	5	-4	15	1	11	1	17	6	20	15	33	-12	31.4	15.1
Wellaboro, .....	20	12	24	0	10	3	30	0	26	2	16	7	20	9	25	5	32	2	33.0	15.2
West Chester, .....	39	22	27	14	15	4	22	4	20	12	21	11	26	9	32	11	32	15	35.5	21.3
Westtown, .....	39	22	22	12	17	4	23	5	20	13	20	11	25	11	29	11	29	15	33.6	20.1
White Haven, .....	40	15	20	12	20	-3	13	-2	20	3	23	10	25	7	24	15	33	-4	32.2	16.1
Wilkes-Barre, .....	40	21	25	16	21	3	35	4	23	8	22	17	27	11	30	20	34	6	37.4	20.8
Williamsport, .....	23	13	21	14	14	0	20	0	16	5	16	10	22	10	30	15	35	3	31.9	19.3
York, .....	30	22	25	14	15	4	21	3	17	8	15	11	26	9	29	13	33	1	35.0	20.8

## Daily Precipitation for Pennsylvania, January, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	12.	13.	14.	15.
Delaware Basin.																
Bethlehem, .....			.06	.33	†	.10									.40	.23
Blooming Grove, .....				.43					†					.02	.10	.02
Browers' Lock, .....					.24										.07	.20
Coatesville, .....				.23											.05	.20
Coopersburg, .....			.01	.01	.32										.05	.20
Doylstown, .....				.15								†	†			.09
Dyberry, .....				.28	†								.02		.08	.02
Easton, .....				.02									.01			.20
Forks of Neshaminy, .....				.01												.09
Frederick, .....				.18												.15
Hamburg, .....		†	.06		.46										.20	†
Hamlington, .....				.27	.04					.15	.05				.05	.01
Honesdale, .....																
Kennett Square, .....				.01	.22										.11	.16
Lansdale, .....				.12											.01	.13
Mauch Chunk, .....				.03	.47					.01	.06				.10	.11
Ottsville, .....				.48								.03				.13
Philadelphia (a), .....				.01	.14					†					.05	.14
Philadelphia (b), .....			†	.01	.13					†	†	†	†		.04	†
Point Pleasant, .....												.17				.06
Pottstown, .....			.25			.15										.25
Quakertown, .....				.30						†	†	†	†		†	.01
Reading, .....				.30											.01	.27
Seisholtzville, .....				.43											.06	.20
Shawmont, .....				.17											.06	.10
Skippack, .....		†	†	.83						†					†	.22
Smith's Corner, .....				.23											.05	.08
Swarthmore, .....															.12	
Swiftwater b., .....																.40
West Chester, .....			.01	.01	.19										.04	.24
Westtown b., .....				.14									†		.06	.22
White Haven, .....				.25						†					.04	.23



Daily Precipitation for Pennsylvania, January, 1897—Continued.

Stations.	Day of Month.																
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	12.	13.	14.	15.	16.
Freeport, .....					.35	.14	.03				.04	.06					
Greensboro, .....				.35	.04	†					.10	.06			.10	.10	
Indiana, .....				.30	.15						.30						†
Irwin, .....				.28	.01	†				†				†	.02		.04
Johnstown, .....				.01	.65	.06	†	†			.01	.15	.11		†	.07	.01
Lock No. 4, .....					.35	†					†	.10	†		†	.06	
Lycippus, .....				.51	.02					.02	.24	.01			.03		.04
Oil City, .....					.39	.04	.04					.55					
Parkers' Landing, .....					.33	.06	.01				†	.15	†				
Pittsburgh, .....				.24	.01	†	1			.01	.04	.01	†		†	†	
Ridgway, .....					.41	†	†			.01	.04						
Saegertown, .....				.30		.13	†				.12	.20	†				
Shingle House, .....	†			1.11	†	†					†						
Smethport, .....				.25	.10												
Somerset, .....				.80						.20	.10					.06	
St. Marys, .....				.02	1.00	.02										†	.15
Uniontown, .....				.42								.25				.12	
Warren, .....				.21	.34	.10	†				.03						
West Newton, .....	†				.30	†					†	.10	.10		†	†	†
Potomac Basin.																	
Chambersburg, .....				.01	.35										.02	.03	
Lake Basin.																	
Erie, .....	†			.25	.33	.10	.02			†	.06	.06					†

\*Precipitation included in that of following day.

†Trace, when precipitation is less than 0.01 inch.

## Daily Precipitation for Pennsylvania, January, 1897—Continued.

Stations.	Day of Month.														Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.
<b>Delaware Basin.</b>															
Bethlehem, .....	.20	.01		1.12		.13	.02	.03				.27			2.35
Blooming Grove, .....				.09	1.01			.06				.18	†		2.25
Browers' Lock, .....	.14	.12		.20	.98		.20	.20			.30	.50			2.00
Coatesville, .....	.13	.19		.16	.105	.02	.02	.105			.30	.40			2.73
Coopersburg, .....	.12	.11		.10	.94		.14	.14			†	.24			2.63
Doylstown, .....	.09	†		.13	.37	†	.07	†				.30	†		1.93
Dyberry, .....				•	.78			.01			.85				1.83
Easton, .....	.11	.13		•	1.66		.02	.02				1.35			1.92
Forks of Neeshaminy, .....	.10	.07		.12	.84			.06				.23			2.29
Frederick, .....	.35			1.03			†	†			.40				1.81
Hamburg, .....									.03		.40				2.50
Hamlington, .....	.05	.15			.59	.03	.03	.02			.40	.04			1.93
Honesdale, .....															
Kennett Square, .....	.06			.06	.166		.02	.02			.07	.33			2.73
Lansdale, .....	.08			.15	.99			.05			.14	.15			1.85
Mauch Chunk, .....	.27	.30		.15	.105							.42			2.96
Ottaville, .....	.14	.07		.19	1.03		.02					.35			2.44
Philadelphia (a), .....	.05	.23		.03	.86		†	.01			.02	.64			2.17
Philadelphia (b), .....	.04	.13		.06	1.04	†	†	.01			.04	.61			2.25
Point Pleasant, .....	.13			.20	.86			.03			.02	.30			1.83
Pottstown, .....	.25			1.20			.15	.15				.65			2.90
Quakertown, .....	†	.30		.30	1.10		.20	.20				.60			3.01
Reading, .....	.13	.08		.12	.30		.04				.07	.30			1.69
Seisholtzville, .....	.11			.19	.91		.06				.05	.22			2.23
Shawmont, .....	.05	.13		.03	.135		.03				.02	1.00			2.94
Skippack, .....	.08	.07		.15	.82						†	.90			3.07
Smith's Corner, .....	.14	.10		.15	.97		.07				.08	.27			2.14
Swarthmore, .....				•	2.00						•	.33			2.99
Swiftwater a, .....	.10				1.50	†		†				.46			2.46
West Chester, .....	.09	.12		.15	1.20	.02		.01			.07	.13			2.33
Westtown b, .....	.09	†		.03	.135		†	†			.10	.60			2.64
White Haven, .....	.14	†		.07	.37	.02	.03	†	†			.60			1.90



Daily Precipitation for Pennsylvania, January, 1897—Continued.

Stations.	Day of Month.														Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.
<b>Susquehanna Basin.</b>															
Altoona, .....	.37	.09	.....	.32	.14	.22	.13	.17	.....	.....	.04	.01	.....	.....	2.03
Aqueduct, .....	.20	†	.36	.22	.36	†	†	†	.....	.....	.....	.30	.30	.30	1.50
Carlisle, .....	.....	.26	.....	.....	.40	.01	.....	.....	.....	.....	.10	.38	.....	.....	1.77
Centre Hall, .....	.30	.....	.....	.30	.....	.30	.10	.....	.....	.....	.30	.30	.30	.30	2.30
Drifton d, .....	.20	.01	.....	.05	.15	.01	.08	.....	.....	.....	.08	.60	.60	.....	1.62
Dunmore, .....	.08	.02	.....	.....	.12	.12	.....	†	.....	.....	.....	.....	.60	.....	1.54
Emporium, .....	.51	.....	.....	.45	.13	.19	.....	.....	.....	.....	.08	.....	.....	.....	2.30
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Girardville, .....	.34	.....	.....	.36	.39	.08	.....	.....	.....	.....	.34	.36	.....	.....	2.59
Grampian, .....	.26	.07	.....	.40	.13	.24	.13	.....	.....	.....	.06	.....	.....	.....	2.15
Hallstead a, .....	.....	.08	.....	.16	.35	.24	.13	.....	.....	.....	.15	.62	.30	.....	2.46
Harrisburg, .....	.15	.02	†	.30	.59	.01	.....	.....	.....	.....	.04	.02	.....	.....	1.60
Hollidaysburg, .....	.33	.08	.....	.36	.30	.11	.17	.32	.....	.....	.06	.....	.....	.....	2.40
Huntingdon, .....	.43	.....	.....	.33	.....	.....	.....	.....	.....	.....	.10	.....	.....	.....	1.66
Lancaster, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	†	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lebanon a, .....	.19	.06	.....	.22	.60	.01	.....	.....	.....	.....	.....	.40	.....	.....	0.90
Le Roy, .....	.20	.05	.....	.03	.43	.02	.03	.02	.....	.....	.07	.14	.....	.....	2.26
Lewisburg, .....	.37	.....	.....	.40	.30	.10	.....	.....	.....	.....	.08	.50	.01	.....	3.13
Lock Haven, .....	.....	.....	.....	.....	.30	.10	.....	.10†	.....	.....	.....	.40	.....	.....	3.26
Renova, .....	.29	.13	.....	.55	.....	.16	.04	.....	.....	.....	.15	.....	.....	.....	1.66
Scranton, .....	.....	.17	.....	.....	.36	.10	.....	.10	.....	.....	.....	.30	.....	.....	2.01
Selinsgrove, .....	.23	.....	.....	.20	.....	.....	.....	.....	.....	.....	.25	.35	.....	.....	1.43
South Eaton, .....	.27	.04	.....	.....	.10	.22	.10	.06	.....	.....	.....	.25	.....	.....	1.85
State College a, .....	.30	.04	†	.20	.22	.10	.06	.06	.....	.....	.....	.06	.....	.....	1.89
Towanda, .....	.....	.....	.....	.....	.21	.06	.01	.....	.....	.....	.....	.....	.....	.....	1.21
Wellsboro, .....	.78	.....	.....	.40	.10	.25	.....	.....	.....	.....	.15	.30	.30	.30	2.23
Wilkes-Barre, .....	.....	.....	.....	.20	.30	.....	.....	.....	.....	.....	.....	.35	.....	.....	1.40
Williamsport, .....	.38	.....	.....	.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.46
York, .....	.10	.02	†	.23	.21	†	†	.06	.....	.....	.13	.19	.....	.....	1.55

Ohio Basin.													
Beaver Dam, .....	.18	.13	.02	.13	.08	.15	.06	.87			.01	.02	.22
Brookville, .....	†	.13		.09	.10			1.15			.02		
Cannonsburg b, .....		.40	.10	.30	.06	.25	.10				†		
Cassandria, .....	.05	.63	.30		.34			.80	.40	.40		.13	
Confluence, .....	†	.23	†	†	.38	†	.03	.13			†	.01	.03
Davis Island Dam, .....	.36		.05		.30	.12	.50	.10					†
Derry Station c, .....	†	.43	.03	.21	.34	.02	.17	.21	†			.12	.03
Du Bois, .....	†	.23		.22	.44			.06				.01	
Elwood Junction, .....	†	.25	.07	.11	.11	.08	.13	.07			.11	.25	
Franklin b, .....	†	.30	.04		.33	.03	.16	.35	.06			.05	.10
Freeport, .....	†	.20	.03		.10	.14	.08	†			†	.20	†
Greensboro, .....	.20	.03		.17			1.30				.11	†	
Indiana, .....	.23	†	†	.22	†	.05	.35	.04			.10	.06	†
Irwin, .....	.06	.48	.16	†	.45	.01	.25	.17	.16	†		.07	.03
Johnstown, .....	.04	.23	.10	†	.23	†	.03	.15	.08			.09	.02
Lock No. 4, .....	.25	.11		.23	.03	.10	.40	.35			.14	.02	
Lycippus, .....		.30	.06		.48	.03	.22	.25	.02			.10	.07
Oil City, .....	.02	.37	.13		.50	.03	.13	.36	.02			.06	.06
Parkers Landing, .....	.15	.10	†	.19	.05	.06	.04	.37		†	.05	.07	.06
Pittsburgh, .....	†	.27	.03		.42	.01	.23	.10				.10	.06
Ridgway, .....	.14	.46	.12	.09	.46	.21	.23	.23	.17		.07	.09	.14
Saegertown, .....	.30	.10			.54	.30		†			†	.13	
Shingle House, .....		.60			.40	.20						.06	
Smethport, .....	.35			.70		.40	.15	.15				.10	
Somersett, .....					.10								
St. Marys, .....	.09	.03		.11	.16			.40		.10		.10	.10
Uniontown, .....	.08	.50		.10	.08	.11	.53	.01		†	.10	.11	.01
Warren, .....	†	.30	.10		.32	†	†	.40	.10	†		.10	†
West Newton, .....													
Potomac Basin.													
Chambersburg, .....	.20				.70	.01					.13	.05	
Lake Basin.													
Erie, .....	.03	.27	.01	.06	.23	.17	.09	.39	.06	.06	.11	.09	.14

\*Precipitation included in that of following day.

†Trace, when precipitation is less than 0.01 inch.

## FEBRUARY, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 30.10 inches, is .02 below the normal. At the United States Weather Bureau stations the highest observed was 30.67 inches, at Erie, on the 28th, and the lowest, 29.55 inches, at Erie, on the 6th.

### Temperature.

The means of the daily maximum and minimum temperatures, 38.4 degrees and 22.7 degrees respectively, give a monthly mean of 30.6 degrees, which is 2.1 degrees above the normal, and 1.2 degrees above the corresponding month of 1896.

The average daily range was 15.7 degrees.

The highest monthly mean was 35.6 degrees, at Greensboro.

The lowest monthly mean was 25.0 degrees, at Dyberry.

The highest temperature recorded during the month was 67 degrees, on the 22d, at Indiana.

The lowest temperature was minus 14 degrees, on the 1st, at Saegerstown.

The greatest local monthly range was 70 degrees, at Dushore.

The least local monthly range was 33 degrees, at Harrisburg.

The greatest daily range was 54 degrees, at Saegerstown.

### Precipitation.

The average precipitation for the month, 3.28 inches, is 0.20 inches more than the normal.

The largest totals of rainfall, in inches, were: Somerset, 6.67; Confluence, 5.88; Uniontown, 5.73; Kennett Square, 5.46; Derry Station, 5.11; Pottstown, 5.07. The least were: Indiana, 1.04; Lawrenceville, 1.16; Easton, 1.28; Shingle House, 1.44; Brookville, 1.49; Warren, 1.53.

Flood at Pittsburgh on the 23d and 24th.

Average dept of snow, 10.3 inches.

The largest totals of snowfall, in inches, were: Edinboro, 20.0; Somerset, 19.8; Cassandria, 19.5; Grampian, 19.0; York, 18.9; Coopersburg, 18.8.

### Wind and Weather.

The prevailing wind was from the west.

Average number of rainy days, 9; clear, 7; partly cloudy, 8; cloudy, 13.



TOTAL PRECIPIT



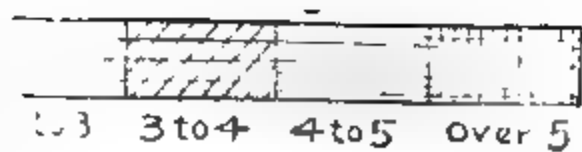
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TION, FEBRUARY, 1897.

2"





**Miscellaneous Phenomena.**

**Thunderstorms.**—Cassandra, Hollidaysburg, Huntingdon, Johnstown, Somerset, State College, 15th; Kennett Square, Philadelphia, Skippack, West Chester, York, 22d.

**Snow.**—1, 2, 3, 5, 6, 7, 8, 9, 11, 12, 13, 15, 16, 19 to 28 inclusive.

**Aurora.**—Dyberry, 14th.

**Solar Halo.**—Philadelphia, Centennial Avenue, 5, 11, 20; Harrisburg, 17, 20.

**Lunar Halo.**—Harrisburg, 15; Hallstead, Towanda, 10, 11; Swiftwater, 10; Wellsboro, 11th; West Chester, 9th.

**Meteors.**—Swiftwater, 13th.



Climatological Data for Pennsylvania, February, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.			Prevailing direction of wind.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted).	Number rainy days.	Number partly cloudy days.	Number clear days.	
Altoona, .....	Blair, .....	1,181	8	20.2	—0.2	58	21	0	1	39	3.21	—0.14	0.86	.....	12	.....	.....	.....
Aqueduct, .....	Perry, .....	387	7	32.9	+0.9	59	21	1	14	46	2.70	—0.50	0.70	10.8	11	8	12	16 NW
Blooming Grove, .....	Pike, .....	.....	31	25.1	—0.3	42	21	—	1	39	3.53	+0.43	0.80	13.9	9	8	11	14 NW
Brookville, .....	Jefferson, .....	.....	11	.....	.....	.....	.....	.....	.....	.....	1.49	—1.50	0.83	.....	10	.....	.....	.....
Cannonsburg c, .....	Washington, .....	336	23	35.3	+2.4	62	17	7	27	33	1.54	—0.56	0.43	1.5	12	2	12	10 W
Carlisle, .....	Cumberland, .....	480	48	31.2	+1.3	51	28	8	1	32	3.42	+0.39	0.76	15.0	8	12	5	11 W
Cassandra, .....	Cambria, .....	2,100	.....	30.9	.....	52	21	8	27	27	3.43	.....	0.96	19.5	11	1	14	13 NW
Centre Hall, .....	Centre, .....	.....	.....	29.4	.....	50	21	3	1	33	4.17	.....	1.05	13.8	8	8	5	15
Chambersburg, .....	Franklin, .....	1,000	33	29.8	—1.9	49	21	0	1	33	4.07	+1.03	1.50	5.0	11	6	8	19 W
Coatesville, .....	Chester, .....	380	8	32.4	+1.8	56	18	3	27	33	4.91	+1.13	1.08	13.2	11	9	11	8 W
Confluence, .....	Confluence, .....	.....	21	29.8	.....	56	18	0	1	36	6.71	+1.83	1.37	8.0	12	9	0	19 NW
Coopersburg, .....	Lehigh, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.40	—0.50	0.86	18.8	13	15	4	9 NW
Derry Station, .....	Westmoreland, .....	520	6	34.5	+2.5	56	21	8	1	39	3.40	.....	0.87	11.5	10	7	4	17 SE
Drifton c, .....	Luzerne, .....	.....	.....	27.8	.....	45	22	—	1	24	2.24	.....	0.75	10.0	10	7	9	9 SE
Dunmore, .....	Lackawanna, .....	.....	.....	27.3	.....	51	4	—	1	42	1.84	.....	0.50	8.5	5	7	12	8 SW
Dunmore, .....	Sullivan, .....	.....	.....	28.6	.....	64	4	—	1	47	1.50	.....	0.72	8.0	5	9	5	14 W
Dyberry, .....	Wayne, .....	1,100	31	25.0	+2.6	46	17	—	1	49	3.06	—0.15	1.26	16.0	8	7	12	9 NW
Easton, .....	Northampton, .....	325	13	31.1	+2.9	47	18	2	1	31	1.16	—2.13	0.85	11.5	9	8	4	16
Edinboro* 1, .....	Erie, .....	1,220	7	24.7	+1.0	43	17	—	2	27	.....	.....	.....	20.0	.....	.....	.....	.....
Emporium, .....	Cameron, .....	1,950	8	29.5	+2.5	51	17	7	23	36	3.20	—0.29	1.06	9.9	7	7	11	10 W
Erie, .....	Erie, .....	1,400	24	28.2	+0.2	47	17	7	23	19	1.74	—1.62	0.72	.....	12	0	7	21 W
Forks of Neshaminy 1, .....	Bucks, .....	304	7	33.9	+2.3	.....	.....	.....	.....	.....	2.94	—0.21	0.94	4.0	9	15	4	9 W
Franklin, .....	Venango, .....	.....	24	28.2	+3.9	50	17	—	1	37	2.80	—0.76	1.14	3.0	8	4	10	14 E
Gettysburg s, .....	Adams, .....	.....	27	28.5	+2.8	58	19	10	14	35	1.17	.....	1.00	0.8	5	12	2	7 SW
Grampian, .....	Greene, .....	1,450	32	26.8	+2.2	48	17	4	1	23	2.78	—0.79	0.82	19.0	11	2	4	22 W
Greensboro, .....	Greene, .....	.....	7	35.5	.....	63	17	1	1	42	4.86	+1.14	1.10	1.0	13	2	5	21 W

Greenville, .....	5	28.6	+2.3	48	17	0	27	28	.....	1.00	12.1	8	1	10	17	W
Hallstead, .....	.....	.....	.....	50	17	-7	1	44	1.76	.....	.....	.....	.....	12	15	NW
Hamburg, .....	380	27.4	+4.7	48	18	9	27	26	4.61	+2.22	0.95	13.0	8	4	15	W
Hamilton, .....	1,600	28.0	+3.8	45	14	7	27	35	3.69	+0.99	1.20	15.5	10	4	5	E
Harrisburg, .....	361	32.1	+1.1	48	18	15	1	23	2.77	+0.25	0.68	.....	11	5	4	NW
Hollidaysburg, .....	947	30.7	+1.4	61	21	-4	1	45	4.58	+0.99	1.08	16.2	11	13	3	W
Honesdale, .....	1,000	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntingdon, .....	650	32.7	+3.4	56	14	-1	1	49	4.69	+1.83	1.90	.....	8	1	10	W
Indiana, .....	1,350	35.2	+3.0	67	22	5	26	39	1.04	-3.00	0.21	0.8	8	7	13	SW
Irwin, .....	.....	38.5	.....	65	21	12	26	32	4.10	.....	0.88	.....	13	6	3	.....
Johnstown, .....	1,184	31.9	-2.5	56	17	1	1	35	4.05	-0.44	0.90	10.0	14	4	6	NW
Kennett Square, .....	275	33.4	+2.0	55	21	7	27	29	5.46	+1.32	1.14	6.8	12	8	10	NW
Lancaster, .....	413	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville a, .....	1,008	28.0	.....	52	17	-10	1	46	1.16	.....	0.65	5.0	4	9	7	NW
Lebanon, .....	488	30.9	+0.9	47	18	5	27	30	3.76	+0.08	0.88	14.8	12	7	11	NE
Le Roy, .....	1,400	26.8	+2.4	50	17	4	27	34	2.28	-0.04	0.70	10.8	13	4	8	SW
Lewisburg, .....	450	24	29.8	+3.2	47	6	-5	14	4.1	2.54	-0.22	0.90	11.0	7	7	15
Lock Haven, .....	560	33.2	+4.0	56	17	-2	1	41	3.52	+0.48	1.60	12.0	8	6	7	W
Lycippus, .....	1,420	31.4	+3.9	56	17	2	26	32	4.70	+1.89	0.92	8.5	12	.....	.....	.....
Mauch Chunk, .....	550	29.3	+0.6	51	21	-1	1	44	3.74	-0.25	1.53	12.5	11	10	8	N
Philadelphia, .....	117	26	35.2	+1.2	53	18	15	27	2.97	-0.22	0.66	6.4	14	6	7	NW
Philadelphia, .....	120	5	26.4	+1.9	56	21	15	27	24	3.64	+0.07	0.91	5.4	13	6	NW
1599 Centennial Avenue, .....	842	26	35.0	+2.0	61	17	8	27	25	4.30	+1.35	1.45	3.8	12	3	W
Pittsburgh, .....	150	33.1	+2.5	50	17	8	27	28	5.07	+1.65	1.50	12.0	7	14	2	W
Pottstown, .....	536	21	30.0	+1.0	53	21	0	1	27	3.84	0	1.22	16.0	12	5	E
Quakertown, .....	280	22	30.8	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Reading 2, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Renova, .....	1,200	4	27.2	+4.2	49	11	-1	1	38	2.41	.....	0.65	12.0	9	8	11
Sagerstown, .....	741	29.8	.....	49	11	-14	1	54	2.41	-1.98	1.27	7.0	7	2	4	NW
Scranton, .....	455	31.4	+4.1	51	21	-2	1	39	2.73	.....	1.05	9.0	5	6	7	W
Selinsgrove, .....	1,476	26.3	.....	50	17	-10	1	38	3.26	+0.55	0.85	9.5	12	2	14	NW
Shingle House, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Skippack, .....	1,500	6	26.4	.....	55	21	1	39	4.20	.....	1.48	8.3	7	10	11	NW
Smethport, .....	2,250	39	28.4	+0.2	53	21	4	27	29	6.67	+0.36	0.85	8.5	9	5	W
Somerset, .....	339	5	35.2	+5.7	53	19	16	12	25	2.57	-0.90	0.93	10.0	6	13	W
South Bethlehem, .....	660	6	29.0	+1.4	49	16	-1	1	41	2.49	-0.36	1.00	10.0	8	8	W
South Easton, .....	1,191	8	29.2	+1.8	54	17	3	1	37	3.19	+0.23	0.87	13.3	8	6	NW
State College a, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Marys, .....	180	7	33.6	-0.3	53	19	5	27	31	.....	.....	.....	.....	8	3	17
Swarthmore, .....	1,600	27.2	.....	48	21	1	1	41	2.83	-0.20	1.74	7.5	8	4	13	NW
Swiftwater, .....	754	28.5	.....	53	17	-3	14	50	1.56	.....	0.93	11.0	5	15	7	NW
Towanda, .....	681	8	35.4	+1.2	60	22	10	27	23	5.73	.....	0.60	7.0	6	10	W
Uniontown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	5	NW
Warren, .....	7	23.2	.....	46	18	0	1	38	1.53	-1.83	0.54	4.0	11	9	2	W

Climatological Data for Pennsylvania, February, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing direction of wind.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.		Number partly cloudy days.	
Wellboro, .....	Tioga, .....	1,337	17	27.8	+2.2	56	17	-8	1	44	2.30	-0.84	1.15	6.5	7	8	4	16 S	
West Chester, .....	Chester, .....	455	41	32.4	+0.9	52	21	11	27	21	5.00	+0.97	1.34	11.2	11	10	3	15 W	
Westtown a, .....	Chester, .....	350	8	31.7	+0.5	51	21	7	27	24	4.52	+1.48	1.07	8.2	11	7	10	10 NW	
White Haven, .....	Luzerne, .....	1,250	.....	26.3	.....	46	20	-7	1	44	1.73	.....	0.87	8.5	8	6	14	8 N	
Wilkes-Barre, .....	Luzerne, .....	575	11	31.9	+3.1	51	17	6	1	27	2.06	-1.54	0.76	10.0	6	4	8	16 W	
Williamsport, .....	Lycoming, .....	530	6	30.6	+3.9	49	6	5	1	27	2.99	+0.60	1.16	13.0	6	13	4	12 E	
York, .....	York, .....	335	8	30.5	-0.3	47	17	3	5	30	4.59	+1.86	1.32	13.9	11	6	11	11 E	

\*Extremes of temperature from observed readings of dry thermometers.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.



Maximum and Minimum Temperatures for Pennsylvania, February, 1897—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Indiana, .....	30	-1	37	29	45	31	40	30	23	20	46	30	46	37	39	22
Irwin, .....	53	34	46	24	36	24	46	23	64	31	53	33	36	31	35	24
Johnstown, .....	53	33	40	31	41	29	34	31	45	40	44	37	39	35	39	30
Kennett Square, .....	37	1	41	31	40	26	36	26	36	18	48	30	33	34	40	32
Lancaster, .....	36	10	35	23	44	23	37	23	36	13	48	29	46	37	40	30
Lawrenceville, .....	36	-10	36	30	31	20	33	19	30	5	39	29	43	36	37	31
Lebanon, .....	32	6	35	23	40	29	36	23	34	9	43	26	43	36	40	33
Le Roy, .....	23	9	33	23	28	16	30	18	34	14	43	25	40	33	35	27
Lewisburg, .....	32	-2	38	23	38	27	40	30	34	12	47	31	43	37	39	23
Lock Haven, .....	36	-2	37	40	20	42	23	38	11	44	30	43	36	35	49	23
Lycippus, .....	33	6	42	30	31	23	35	25	33	7	44	29	43	37	36	31
Mauch Chunk, .....	36	-1	39	28	38	23	41	29	37	8	44	29	43	37	36	31
Philadelphia (a), .....	36	22	35	29	40	31	24	26	43	24	50	32	49	33	41	34
Philadelphia (b), .....	33	21	34	29	40	29	36	26	37	23	43	32	51	39	40	34
Pittsburgh, .....	42	17	40	33	35	23	33	26	41	30	44	34	33	34	37	32
Pottstown, .....	36	8	34	30	46	23	36	18	36	8	44	34	45	36	40	32
Quakertown, .....	37	0	31	24	46	23	35	23	37	0	42	26	46	36	40	30
Renova, .....	32	-1	33	23	38	30	39	13	37	12	45	29	43	35	39	32
Seagerstown, .....	40	-14	36	23	30	20	31	15	37	5	40	30	39	39	35	24
Scranton, .....	39	3	39	37	40	25	39	20	41	15	42	32	43	35	38	29
Sedwagrove, .....	36	-2	40	16	46	23	33	23	40	15	42	32	43	34	37	31
Shingle House, .....	40	-10	40	13	36	20	43	16	42	9	43	23	43	33	36	31
Skippack, .....	37	1	35	25	44	30	35	13	35	2	44	23	43	33	36	31
Smethport, .....	36	-8	33	23	23	23	40	15	33	8	43	27	35	33	35	27
Somerset, .....	33	15	32	22	35	20	33	30	30	22	40	24	36	30	30	26
South Bethlehem, .....	32	13	36	21	29	23	31	27	36	31	39	36	40	34	41	36
South Eaton, .....	37	-1	40	37	37	24	30	32	38	10	44	29	44	37	33	31
State College, .....	29	3	23	24	35	22	35	13	30	17	44	36	43	34	34	30
St. Marys, .....	33	7	33	15	34	22	35	19	32	18	43	25	37	30	36	25
Swarthmore, .....	30	13	33	31	43	23	34	23	40	19	44	33	45	33	39	33

Swiftwater, .....	22	1	56	22	33	27	34	16	32	5	41	21	41	35	37	32	34	27
Towanda, .....	35	-2	39	26	32	22	35	21	33	12	44	30	43	37	35	31	34	30
Uniontown, .....	43	27	39	34	37	23	35	31	39	30	47	34	39	33	37	32	33	30
Warren, .....	38	0	37	23	38	23	28	14	36	12	37	30	42	32	35	29	34	25
Wellsboro, .....	30	-8	36	30	34	23	33	15	41	7	45	28	42	30	40	26	35	20
West Chester, .....	33	14	32	27	39	23	32	21	33	12	45	29	45	36	38	32	37	32
Westtown, .....	31	8	33	27	39	23	30	16	.....	.....	46	29	45	37	37	32	37	31
White Haven, .....	34	-7	38	25	38	24	34	15	36	2	42	26	43	34	37	31	38	18
Wilkes-Barre, .....	30	6	41	28	39	23	21	26	40	14	46	23	45	35	41	32	38	30
Williamsport, .....	32	5	40	27	35	25	37	25	34	16	49	33	42	35	37	33	34	30
York, .....	24	6	34	29	34	29	36	15	33	3	47	28	42	36	37	32	35	31



Huntingdon, .....	33	29	23	23	22	27	40	27	56	7	50	20	40	32	52	18	55	35
Indiana, .....	37	26	61	23	23	23	42	24	46	30	66	27	46	24	57	31	35	26
Irwil, .....	35	29	49	37	40	31	43	42	62	38	62	38	42	32	59	35	42	31
Johnston, .....	37	29	32	18	36	28	42	28	50	18	44	28	40	28	55	35	46	34
Kennett Square, .....	35	25	37	26	33	23	38	23	47	13	47	31	46	33	50	27	52	35
Lancaster, .....																		
Lawrenceville, .....	31	27	29	9	33	20	...	...	45	-1	42	25	38	27	52	11	53	30
Lebanon, .....	31	29	34	27	11	29	17	22	39	9	45	17	43	31	44	25	47	29
Le Roy, .....	29	19	27	11	29	17	21	9	43	8	35	26	36	36	50	23	35	28
Lewistown, .....	34	30	36	24	32	23	36	5	36	-5	37	9	42	26	44	17	46	33
Lock Haven, .....	34	30	34	24	33	23	41	21	49	8	52	24	40	32	58	28	54	34
Lycippus, .....	29	26	35	22	39	27	39	26	45	26	49	32	51	28	45	29	56	31
Much Chunk, .....	31	27	29	23	23	18	30	16	46	2	45	24	41	27	47	17	49	26
Philadelphia (a), .....	38	31	36	28	29	23	33	23	43	24	45	35	44	35	52	53	40	41
Philadelphia (b), .....	37	29	35	29	29	23	33	23	43	23	45	35	45	34	50	32	55	41
Pittsburgh, .....	34	30	40	28	42	32	38	30	51	32	53	35	41	31	61	37	49	32
Pottstown, .....	38	26	37	29	34	24	35	23	40	14	45	25	45	33	50	30	50	31
Quakertown, .....	36	23	36	24	24	18	31	15	40	3	46	26	42	26	47	21	48	33
Renova, .....	31	29	35	23	33	24	36	19	51	13	43	26	39	24	55	19	45	35
Saegertown, .....	34	22	49	19	37	23	28	18	43	15	41	25	27	25	47	19	47	35
Scranton, .....	32	26	36	19	30	16	23	15	42	3	36	26	27	30	47	20	44	34
Sellingrove, .....	34	29	30	24	33	23	34	15	32	3	40	29	41	30	47	29	45	35
Shingle House, .....	25	18	36	18	31	21	36	14	46	10	44	28	46	18	50	14	43	21
Skipack, .....	40	24	37	22	31	21	36	13	43	10	47	25	48	30	51	23	50	32
Smethport, .....	30	21	25	21	31	22	38	16	46	12	33	27	32	27	48	14	35	28
Somerset, .....	31	22	23	20	26	26	37	22	40	20	44	24	45	20	51	22	46	28
South Bethlehem, .....	38	31	32	24	40	16	43	18	42	19	41	32	42	34	47	34	49	32
South Eaton, .....	33	25	33	18	31	18	33	11	40	-1	37	31	49	15	42	45	32	32
State College, .....	29	26	29	23	32	24	34	21	43	11	42	38	37	28	54	24	49	32
St. Marys, .....	20	23	32	21	32	21	32	17	46	15	35	30	37	32	43	18	36	28
Swarthmore, .....	35	30	35	29	39	25	32	13	44	33	45	33	43	32	49	34	52	33
Swiftwater, .....	33	27	32	21	25	14	26	15	44	3	38	24	37	36	44	19	44	28
Towanda, .....	30	24	31	16	22	19	25	11	47	-3	35	25	36	31	52	16	37	34
Uniontown, .....	35	20	40	22	41	33	42	34	46	34	53	32	40	34	59	32	38	35
Warren, .....	31	25	31	23	38	25	28	13	45	21	44	28	34	29	42	21	46	29
Wellboro, .....	32	22	31	16	30	18	34	12	49	5	40	24	45	21	56	22	52	34
West Chester, .....	33	26	35	27	30	22	32	22	41	21	43	33	43	33	49	29	50	39
Westtown, .....	33	26	35	27	30	22	32	22	41	21	43	33	43	33	49	29	50	39
White Haven, .....	35	15	34	9	33	7	34	3	42	-2	37	18	36	26	42	17	40	29
Wilkes-Barre, .....	35	15	34	9	33	7	34	3	42	-2	37	18	36	26	42	17	40	29
Williamsport, .....	31	30	33	21	33	20	33	16	43	17	39	23	40	31	51	24	46	39
York, .....	31	30	33	21	33	20	33	16	43	17	39	23	40	31	51	24	46	39
York, .....	33	24	33	27	32	24	36	15	39	10	43	17	30	31	49	26	43	34



Maximum and Minimum Temperatures for Pennsylvania, February, 1897—Continued.

Stations.	19.		20.		21.		22.		23.		24.		25.		26.		27.		28.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	38	23	34	20	58	32	43	33	39	31	35	37	39	16	32	15	23	10	32	12	38.5	21.9
Aqueduct, .....	41	33	36	24	59	35	39	35	44	35	38	27	46	26	34	18	26	13	33	13	40.8	25.0
Blooming Grove, .....	30	10	31	10	42	23	39	29	35	29	32	15	36	14	34	13	27	—	30	7	33.8	16.4
Brookville, .....																						
Cannonburg, .....	58	28	62	29	58	38			57	28	43	19	49	25			24	7	57	16	43.6	27.0
Carlisle, .....	43	26	33	22	44	32	37	33	45	31	37	23	43	25	35	21	29	15	37	15	35.7	23.6
Cassandria, .....	35	24	37	29	52	40	40	34	34	31	31	18	36	22	27	16	19	8	31	15	35.9	25.9
Centre Hall, .....	34	26	34	19	50	28	46	31	35	33	32	17	38	17	38	17	24	13	30	13	36.8	22.0
Chambersburg, .....	39	26	35	17	49	30	39	31	41	30	39	21	48	19	35	17	25	12	34	13	33.2	21.6
Coatesville, .....	47	30	5	20	55	30	42	34	47	33	42	25	42	24	35	25	31	3	37	11	41.3	23.6
Confidence, .....	42	27	40	25	35	28	42	26	51	34	35	13	40	28	32	22	29	9	25	11	35.2	21.5
Coopersburg, .....	43	28	38	28	46	30	40	31	45	33	44	24	45	26	38	24	35	9	40	18	44.3	24.8
Derry Station, .....																						
Drifton, .....	30	31	41	14			45	23	33	29	31	15	41	21	38	12	24	0	39	10	37.0	18.6
Dunmore, .....	23	9	21	10	47	32	24	31	33	31	33	25	41	13	41	3	26	3	34	9	37.4	17.2
Duhoire, .....	34	20	34	10	47	28	39	32	36	29	30	15	40	20	29	13	25	—	35	13	35.2	18.9
Dyberry, .....	33	23	31	—	44	25	32	29	35	28	31	17	39	6	31	13	25	—	29	3	34.5	15.6
Easton, .....	40	28	40	23	46	30	38	34	41	34	38	24	40	26	38	22	28	10	31	14	33.7	22.5
Emporium, .....	36	23	34	16	47	34	39	34	40	31	33	18	38	13	26	14	22	10	31	7	36.8	22.2
Erie, .....	32	26	43	24	41	31	46	31	37	21	30	13	33	15	20	12	16	8	24	7	33.3	23.1
Franklin, .....	33	22	33	19	44	31	42	31	40	32	32	16	34	18	22	12	20	4	19	10	35.0	21.4
Gettysburg, .....	58	32	42	26	38	26	40	22	46	34	42	32	36	22	34	18	36	12	38	22	41.3	25.2
Grampian, .....	22	20	30	20	46	34	36	33	33	26	28	12	30	16	20	10	14	6	23	8	32.7	21.0
Greensboro, .....	42	26	41	24	60	40	57	38	54	44	44	38	44	19	39	20	23	4	46	11	44.1	27.2
Greenville, .....	33	20	40	21	43	33	47	32	32	26	33	15	33	18	28	13	23	0	23	6	35.0	21.6
Hallstead, .....	33	23	31	6	45	29	38	32	37	30	34	20	42	14	29	13	31	9	19	1	36.8	18.0
Hamburg, .....	41	29	35	20	42	33	37	35	42	34	37	24	40	26	33	24	29	9	36	13	38.6	23.5
Hamilton, .....	34	22	31	17	43	24	37	30	33	30	33	17	39	19	35	13	24	7	30	8	35.8	20.3
Harriburg, .....	40	33	35	25	44	32	38	34	41	33	36	22	41	27	35	23	25	19	34	13	37.6	24.6
Hollidaysburg, .....																						
Honesdale, .....	41	24	35	21	61	33	41	33	39	33	35	16	42	17	34	16	26	12	33	15	40.0	21.4

Huntingdon, .....	50	38	23	48	32	42	33	40	38	37	22	43	17	37	20	29	15	36	18	40.8	24.6		
Indiana, .....	42	58	46	63	37	67	32	40	17	32	13	34	14	25	6	20	6	46	19	45.5	24.8		
Irwin, .....	43	35	50	42	60	46	59	35	38	22	44	22	53	21	39	12	30	21	44	31	44.3	32.2	
Johnstown, .....	38	28	38	22	53	35	43	36	40	32	34	18	40	18	30	16	24	8	34	14	39.3	24.5	
Kennett Square, .....	44	30	35	22	55	26	45	34	47	33	40	27	41	26	35	26	30	7	36	16	41.3	25.6	
Lancaster, .....																							
Lawrenceville, .....	40	24	35	14	43	29	38	32	38	33	34	11	40	19	35	14	23	5	31	5	37.0	19.0	
Lebanon, .....	41	29	33	21	39	30	37	24	42	33	36	23	39	25	31	22	23	5	34	16	37.8	24.0	
Le Roy, .....	32	22	32	16	46	26	40	27	35	27	30	13	32	18	7	13	4	31	6	33.0	18.5		
Lewisburg, .....	42	25	33	20	46	32	40	35	40	32	36	21	45	20	36	20	26	14	35	14	38.1	21.6	
Lock Haven, .....	42	24	39	19	50	32	46	24	41	23	40	20	42	16	40	19	29	15	35	10	41.8	22.6	
Lycippus, .....	38	26	38	25	52	31	54	36	52	31	34	17	33	12	15	2	23	6	22	6	39.0	23.7	
Lycippus, .....	38	26	38	25	52	31	54	36	52	31	34	17	33	12	15	2	23	6	22	6	39.0	23.7	
Mauch Chunk, .....	39	27	34	14	51	27	37	32	43	32	37	20	40	16	32	13	28	4	34	13	38.6	21.0	
Philadelphia (a), .....	41	33	41	30	53	34	40	35	48	33	38	30	42	30	35	33	30	13	34	19	40.8	29.7	
Philadelphia (b), .....	45	32	38	28	56	32	49	36	53	34	41	29	41	31	27	27	33	16	37	19	41.5	29.2	
Pittsburgh, .....	39	30	51	31	58	38	56	37	51	30	38	19	41	22	27	17	22	8	34	17	42.0	28.0	
Pottstown, .....	42	30	38	24	50	32	40	36	46	34	38	26	40	23	36	28	30	8	36	15	40.3	26.9	
Quakertown, .....	39	27	36	18	53	26	38	33	43	31	25	23	40	21	31	22	29	2	33	10	38.7	21.3	
Renova, .....	39	27	35	17	53	31	47	34	39	32	35	19	40	15	37	17	24	10	32	9	39.1	22.1	
Seagerstown, .....	38	16	36	10	43	31	44	28	44	24	34	12	34	20	25	7	24	4	29	5	37.0	17.3	
Seranton, .....	35	25	34	15	47	27	42	32	40	32	32	20	39	19	38	15	27	8	32	12	37.6	22.1	
Sellingrove, .....	41	26	40	20	51	32	40	33	41	32	37	20	47	22	34	21	27	10	27	14	39.1	23.7	
Shingle House, .....	38	16	36	10	43	31	44	28	44	24	34	10	34	12	25	2	20	0	26	6	37.2	15.4	
Skippack, .....	48	28	42	19	55	39	42	35	46	30	49	21	41	26	40	20	42	3	35	10	42.5	22.4	
Smethport, .....	35	17	31	9	42	29	38	29	32	27	32	14	35	17	21	6	20	4	27	0	34.4	18.3	
Somers, .....	40	22	32	20	52	32	46	36	38	22	32	14	26	16	18	12	32	4	30	8	35.7	21.0	
South Bethlehem, .....	52	35	49	32	46	38	51	39	51	36	52	37	39	32	40	31	40	20	43	24	41.3	29.2	
South Eaton, .....	56	22	34	12	46	16	37	33	40	33	35	20	41	21	32	16	27	7	32	13	37.4	20.5	
State College, .....	34	27	31	20	46	16	37	33	40	33	35	17	37	18	30	12	19	13	30	12	30.2	22.3	
St. Marys, .....	35	27	41	20	46	16	37	33	40	33	35	17	37	18	30	12	19	13	30	12	30.2	22.3	
St. Marys, .....	35	27	41	20	46	16	37	33	40	33	35	17	37	18	30	12	19	13	30	12	30.2	22.3	
Swarthmore, .....	41	26	40	29	52	35	39	35	46	28	37	26	43	28	38	10	26	15	34	20	39.6	27.6	
Swiftwater, .....	34	20	31	12	48	26	36	30	38	30	33	16	37	14	33	16	26	7	30	3	35.4	19.1	
Towanda, .....	33	26	33	15	50	30	38	32	38	33	38	19	41	24	34	14	26	8	31	11	30.0	21.1	
Uniontown, .....	41	29	53	30	53	45	60	41	41	34	24	21	40	24	26	22	24	10	33	15	41.0	29.9	
Warren, .....	35	25	34	13	42	27	38	31	33	27	33	15	34	20	33	9	18	5	28	3	35.6	20.8	
Wellboro, .....	35	22	30	15	48	30	38	26	36	28	24	12	33	19	30	10	24	5	28	10	37.6	17.9	
West Chester, .....	41	30	35	24	53	32	46	34	44	32	36	26	39	23	35	25	23	11	33	14	38.5	26.4	
Westtown, .....	41	30	34	22	51	32	43	34	46	32	35	27	38	26	34	26	27	7	32	14	37.7	26.5	
White Haven, .....	34	24	32	10	46	26	38	30	38	29	35	13	33	14	28	15	23	23	1	28	7	36.1	16.5
Wilkes-Barre, .....	40	27	39	17	49	27	42	33	41	32	37	21	42	24	37	17	39	17	49	27	39.8	24.0	
Williamsport, .....	38	23	37	18	45	34	46	33	39	31	34	21	41	20	28	18	24	13	32	15	37.1	24.1	
York, .....	40	29	34	24	42	32	40	34	42	33	36	24	39	26	33	23	24	4	33	12	37.5	23.5	

Daily Precipitation for Pennsylvania, February, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....		.30				.33						.76				
Blooming Grove, .....		.01					1.61	.03				.80			.06	
Browers' Lock, .....		.96	.34			.81	.17	.04				.63				
Coatesville, .....		1.89	.23			.70	.06	.07				.56				
Coopersburg, .....		.82	.04			.96	.17	.01				.91				.01
Doylestown, .....		.74	.14			.81	.13	.05				.48	.07			
Dyberry, .....						.70	.32	†				1.04	.22		†	
Easton, .....		.20					.02	†				.86				.01
Forks of Neeshaminy, .....		.32				.84	.08	.03				.50				
Frederick, .....		.54	.06			.63	.24	.03				.49				
Hamburg, .....		.96				.87		.90				.66			.11	
Haminton, .....						.50	.90	.06	.06			1.00	.20			.10
Honesdale, .....																
Kennett Square, .....		1.14	.10			.70	.08	.09				.64				.12
Lansdale, .....		.40	.25			.81		.08				.12				
Mauch Chunk, .....		.03				1.11	.47	.03				.99	.04		.12	
Ottisville, .....		.25	.09			1.20						.78				.06
Philadelphia (a), .....		.50	.02	†		.4	2	.06	.07	.01		.41				.04
Philadelphia (b), .....		.71	.08			.65	.06	.06		†		.54				.02
Point Pleasant, .....		.43	.08			.91	.14			.03		.90				
Pottstown, .....		.85				1.50		.10		.10		1.00				
Quakertown, .....		.30	.70			1.01	.21	.04				.50			†	.09
Reading, .....		.70	.01			.54	.09	.06				.85				.01
Seisholtzville, .....		.23				.91	.12					.67				
Shawmont, .....		.65	.11			.46	.09	.05				.55				
Skippack, .....		.50				1.43		†				.20			†	
Smith's Corners, .....		.20				.94	.13			.39						
Swarthmore, .....		*	.20			.42						.40				
Swiftwater, .....		†				.65	.46	†				.93	†		†	
West Chester, .....		1.34	.25			.91	.06	.08				.67				
Westtown a, .....		†	1.07			.80	.06	.11				.65				
White Haven, .....		.02				.52	.13	†				.57			†	†

## Susquehanna Basin.

Altoona, .....	.30	.06	.88	.02	.15				.74			
Aqueduct, .....	.12		.70	.07	.16				.70			.06
Cadiz, .....	.60		.66						.76			.07
Centre Hall, .....	1.06		.85	.76	.76			.40	.90			
Drifton c, .....	.02		.75	.06	.06			.35	.70	.02		.02
Dunmore, .....			*	.45					.80			
DuShore, .....			.23		.05				.72			
Emporium, .....	.18		1.06	†	.03				.33			†
Gettysburg s, .....	†		†	†	.10				.06			
Girardville, .....	.16		1.35	.16	.16				.77			
Grampian, .....	.33		.40	.10	.20				.62	.20		
Hallstead, .....					.13				1.00	.02		
Harrisburg, .....	.51	.01	.48	.08	.10				.53		†	.01
Holidaysburg, .....	.55		1.06	.10	.32				1.08	.32		.14
Huntingdon, .....	.23		1.90	.22	.57				.53			
Lancaster, .....												
Lawrenceville a, .....			.23						.65			
Lebanon, .....	.70	.04	.88	.04	.12				.83			.02
Le Roy, .....	.08		.50	.10	.06				.70			.01
Lewisburg, .....	.22		.20		.12				.90			
Lock Haven, .....	.15		1.20	.40					.85			
Renova, .....	.11		.65	.09	.06				.45			
Scranton, .....			.55	.19	.04				.90			
Selinsgrove, .....	.20		.85	.02	.10		.02	†	.80			
South Eaton, .....			.33	.16	.03				1.00			
State College a, .....	.09		.87	.11	.14				.80	†		
Towanda, .....	.01		.24	.02	†		†		.60	†	†	†
Towanda, .....			.65	.50					.45			
Wellboro, .....	†		*	.83			.02		.78			
Wilkes-Barre, .....	.10				.09				.81			
Williamsport, .....			1.16	.13	.11				.47			.01
York, .....	1.32	.24	.77						.31			

## Ohio Basin.

Brookville, .....			.03	.32	.07		.01		.08	.02		
Cannonsburg c, .....	.06		.43	.04	.12			.03	.23			
Cassandra, .....	.30	.05	.96	.20	.30				.40		.19	
Confluence, .....	.08	.13	.19	.61	.20		.24		.73	.38		.14
Davis Island Dam, .....	.24	.10	.98	.95	.07		.09		.32	.09	†	
Derry Station, .....	.75		.50	.57	.50		.32		.64	.19		
Du Bois, .....	.11	.03	.47	.39	.07		.09		.21	.11		.16
Elwood Junction, .....	.30	†	.70	1.10			.10		.31	†		
Franklin, .....	.10	.05	1.14	.21	†				.17			

Daily Precipitation for Pennsylvania, February, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Freeport, .....	†	.20	.10	.01	.....	.80	.70	.12	.10	.....	.....	.35	.22	.....	.....	.....
Greensboro, .....	.....	.40	.....	.....	.10	.42	.25	.30	.....	.....	.....	.75	.....	.....	.01	.....
Indiana, .....	.....	†	.....	.....	.12	.21	.10	.....	.....	.....	.....	.19	.....	.....	.06	.....
Irwin, .....	.25	.10	.....	.....	.60	.67	.21	.08	.....	.....	.46	.15	.....	.....	.....	.....
Johnstown, .....	.....	.08	.07	.....	.....	.28	.25	.17	.03	†	.....	.16	.39	.....	.21	.....
Lock No. 4, .....	.....	.30	.17	.....	.....	.57	1.00	.25	.11	.....	.....	.49	.13	.....	.....	†
Lycippus, .....	.....	.42	.....	.....	.....	.66	.25	.17	.....	.....	.50	.34	.....	.....	.07	.....
Oil City, .....	.....	.05	.....	.04	.....	.87	.83	†	.08	.....	.....	.24	.11	.....	.....	†
Parkers' Landing, .....	.....	.12	.03	.10	.....	.84	.87	.09	.05	.....	.....	.22	.13	.....	.....	†
Pittsburgh, .....	†	.23	.....	.....	.15	.145	.40	.19	†	.....	.....	.50	.....	.....	.....	.....
Ridgway, .....	.....	.06	.....	.....	.....	.55	.43	.02	.05	.....	.....	.05	.06	.....	.....	.05
Saegertown, .....	.....	.....	.....	.....	.....	1.27	.43	.16	†	.....	.....	.30	†	.....	.....	†
Shingle House, .....	.....	.....	.....	.....	.....	.01	.....	.....	.....	.....	.....	.32	.....	.....	.06	.....
Smethport, .....	.....	.....	.....	.....	.....	.85	.15	.06	.....	.....	.....	.50	.....	.....	.....	.....
Somerset, .....	.....	.75	.....	.....	.....	1.20	.20	.85	.....	.....	.....	.85	.....	.....	.35	.....
St. Marys, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Uniontown, .....	.....	.35	.....	.....	.12	.48	.51	.43	.....	.....	.....	.86	.....	.....	.....	.....
Warren, .....	.....	.01	.....	.....	.....	.34	.54	.01	.....	.....	.....	.30	.....	.....	.01	.01
West Newton, .....	.....	.30	.42	.....	.....	.43	.83	.10	.25	.....	.....	.50	.21	.....	.....	.06
Potomac Basin.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chambersburg, .....	.....	.60	.....	.....	.01	.70	.11	.15	.....	.....	.....	.43	.....	.....	.....	.....
Lake Basin.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erie, .....	.....	.....	.....	.01	.01	.72	.44	.10	†	†	.....	.31	†	.....	.....	.01

\*Precipitation included in that of following day.

†Trace, when precipitation is less than 0.01 inch.

Daily Precipitation for Pennsylvania, February, 1897—Continued.

Stations.	Day of Month.														Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.
<b>Delaware Basin.</b>															
Bethlehem, .....				.13		.49	.14			.01					2.57
Blooming Grove, .....				.25		.69	.14			†		†			3.59
Brovers' Lock, .....					.13	.47	.70				.09				4.34
Coatesville, .....				.17	.09	.75	.37			.20					4.91
Coopersburg, .....				.16	.13	.06	.40			.04	.02				3.73
Doylestown, .....				†	.44	.43				.39					3.73
Dyberry, .....			†	†	.13	.17	.45	.03							3.06
Easton, .....				•	.05		.10	†		.05					1.28
Forks of Neshaminy, .....				.19		.29	.65			.03					1.28
Frederick, .....					.11	.28	.54			.05					2.94
Hamburg, .....			.25			.71				.16					3.07
Hamilton, .....			†		.14		.70	.05							4.61
Honesdale, .....															3.69
Kennett Square, .....				.45		.53	.61			.85	.15				5.46
Lansdale, .....				.11	.16	.31	.62			.08					2.94
Mauch Chunk, .....				.26			.63	.02		.06					3.74
Ottaville, .....					.13		.52								3.03
Philadelphia (a), .....				.05	.26	.39	.66			.07	.01				2.97
Philadelphia (b), .....				.05	.25	.42	.73	†		.07	.01				3.64
Point Pleasant, .....				.05	.18	.08	.53			.15					3.06
Pottstown, .....				.20		1.27				.03					5.07
Quakertown, .....				.12	.27	.07	.46			.07					3.84
Reading, .....				.06	.04	.20	.34			.05					2.94
Seisholtzville, .....				.06		.19	.43			.12					2.73
Shawmont, .....				.02	.15	.40	.65			.02	.04				3.18
Shippack, .....				.02		1.20	.65		.15						4.20
Smith's Corners, .....				.06	.20	.09	.55			.04					2.90
Swathmore, .....						•	1.74			•	.15				2.91
Swiftwater, .....			†	.13		†	.67								2.83
West Chester, .....				.17	.19	.51	.63			.20					5.00
Westtown a, .....				•	.30	.03	.38			.20					4.52
White Haven, .....			†	.09	.03	†	.35			.02					1.73

Daily Precipitation for Pennsylvania, February, 1897—Continued.

Stations.	Day of Month.															
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Total.
Susquehanna Basin.																
Altoona, .....				.08	.15	.58	.29				.01					3.31
Aqueduct, .....				.15	.08	.25	.35			.05						2.70
Carlisle, .....				.20	.60	.33	.12			.10						3.42
Centre Hall, .....				.22		.95		.05								4.17
Drifton c, .....				.10		.25				.03						2.24
Dunmore, .....							.55	.04								1.94
Dushore, .....						.42				.08						1.50
Emporium, .....				.35		.86	.34									3.20
Gettysburg s, .....	†						1.00			.01						.....
Girardville, .....				.24		.68		.02		.08						3.46
Gramplan, .....				.18		.64	.18	.10			.03					2.78
Hallstead, .....			†			•	.54	.06	.01			.02				1.76
Harrisburg, .....				.06	.04	.68	.32	†		†	†					2.77
Holidaysburg, .....				.17	.14	.94	.22			.07						4.58
Huntingdon, .....				.10	.28	.37										4.69
Lancaster, .....																.....
Lawrenceville a, .....				†		.14	.04					†				1.16
Lebanon, .....				.06	.11	.43	.38			.10	†					3.76
Le Roy, .....				.03		.15	.50	.05		.03		.07				2.23
Lewisburg, .....				.20		.50	.31									2.54
Lock Haven, .....				.20		•	.72									2.52
Renova, .....				.29		.50	.19	.07								2.41
Scranton, .....						1.05										2.72
Selinsgrove, .....				.12	.06	.67	.21	.02								2.36
South Eaton, .....				.03	.01	.61	.32				†					2.49
State College a, .....				.20		.80	.18									2.19
Towanda, .....			†	†		.25	.44	†	†	†	†	†				1.56
Wellboro, .....				.10		.35	.20					.05				2.30
Wilkes-Barre, .....					.08	.55										2.06
Williamsport, .....				.10			.64									2.99
York, .....				.12	†	1.05	.24			.14						4.59

Ohio Basin.									
Brookville, .....	.03	.15	.62	.12	.....	.07	.....	.....	1.49
Cannonsburg o, .....	.38	.04	.38	.....	.....	.....	.....	.....	1.54
Cassandra, .....	.20	.59	.19	.....	.....	.10	.....	.....	3.43
Confluence, .....	.....	.74	1.37	1.00	.....	.07	.....	.....	5.83
Davis Island Dam, .....	.25	.09	.93	.....	.....	↑	.....	.....	4.11
Derry Station, .....	.87	.27	.87	.....	.....	.....	.....	.....	5.11
Du Bois, .....	.02	.18	.....	.....	.....	.06	.....	.....	2.83
Elwood Junction, .....	↑	↑	.60	.....	.....	.01	.....	.....	2.81
Franklin, .....	.....	.56	↑	.....	.....	↑	.....	.....	2.50
Freepport, .....	.11	.25	.03	1.06	.....	.05	.....	.....	3.99
Greensburg, .....	↑	.60	.10	.40	.....	.03	.01	.....	4.86
Indiana, .....	.16	.17	.04	.....	.....	.....	.....	.....	1.04
Irwin, .....	.30	.23	.38	.....	.01	.....	.06	.....	4.10
Johnstown, .....	.90	.47	.45	.90	.02	.09	.....	.....	4.06
Lock No. 4, .....	.33	.55	.62	.....	.....	.05	.....	.....	4.63
Lycippus, .....	.30	.45	.92	.....	.....	.....	.....	.....	4.70
Oil City, .....	.03	.14	.06	.42	.02	.03	.....	.....	2.91
Parkers' Landing, .....	.....	.23	↑	.90	.02	.....	.....	.....	3.64
Pittsburgh, .....	.....	.06	.31	.....	.03	.03	.....	.....	4.30
Ridgway, .....	.05	.07	.....	.....	.70	.....	.....	.....	2.13
Saegerstown, .....	.....	.10	↑	.06	↑	.....	.....	.....	2.41
Shingle House, .....	.....	↑	.....	.....	↑	.10	.....	.....	1.44
Smethport, .....	.45	.20	.20	.....	.....	.....	.15	.....	2.76
Somerset, .....	.....	.10	.25	.50	.....	.12	.....	.....	6.87
St. Marys, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Uniontown, .....	.37	.35	.192	.20	.....	.06	.....	.....	5.73
Warren, .....	.....	.04	.11	↑	.10	.....	.....	.....	1.53
West Newton, .....	.06	.25	.47	.77	↑	.....	↑	.....	4.63
Potomac Basin.									
Chambersburg, .....	.....	.05	1.50	.27	.....	.03	.....	.....	4.06
Lake Basin.									
Erie, .....	↑	↑	.06	↑	.01	.04	.....	.....	1.74

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.



**MARCH, 1897—CLIMATOLOGY OF THE MONTH.**

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**Atmospheric Pressure.**

The mean pressure for the month, 30.08 inches, is .04 above the normal. At the United States Weather Bureau stations the highest observed was 30.77 inches, at Philadelphia, on the 1st, and the lowest, 29.31 inches, at Philadelphia on the 24th.

**Temperature.**

The means of the daily maximum and minimum temperatures, 48.5 degrees and 29.6 degrees respectively, give a monthly mean of 39.0 degrees, which is 4.1 degrees above the normal, and 8.4 degrees above the corresponding month of 1896.

The average daily range was 18.9 degrees.

The highest monthly mean was 44.5 degrees, at Pittsburgh.

The lowest monthly mean was 32.4 degrees, at Le Roy.

The highest temperature recorded during the month was 75 degrees, on the 18th, at Coatesville.

The lowest temperature was minus 5 degrees, on the 1st at Saegertown.

The greatest local monthly range was 71 degrees, at Lawrenceville.

The least local monthly range was 39 degrees, at South Bethlehem.

The greatest daily range was 47 degrees, at Lock Haven.

**Precipitation.**

The average precipitation for the month, 3.22 inches, is 0.18 inches less than the normal.

The largest totals of rainfall, in inches, were: Somerset, 5.86; Greenville, 5.63; Oil City, 5.36; Johnstown, 5.36; Center Hall, 5.08; Freeport, 5.05. The least were: Cannonsburg, 1.01; Lansdale, 1.40; Skippack, 1.89; Aqueduct, 1.93; Reading, 2.02; Philadelphia, 2.03.

Average depth of snow, 3.4 inches.

**Wind and Weather.**

The prevailing wind was from the west.

Average number of rainy days, 13; clear, 11; partly cloudy, 7; cloudy, 13.

**Miscellaneous Phenomena.**

Thunderstorms.—2, 3, 13, 20, 22, 23, 24.

Hail.—5, 14, 20, 24.



TOTAL PRECIPITATION

3'

4'

5

6

4'

4"

5"

3"

4"

SCALE OF IN



1 to 2



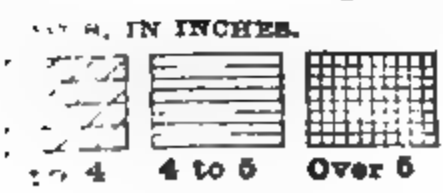
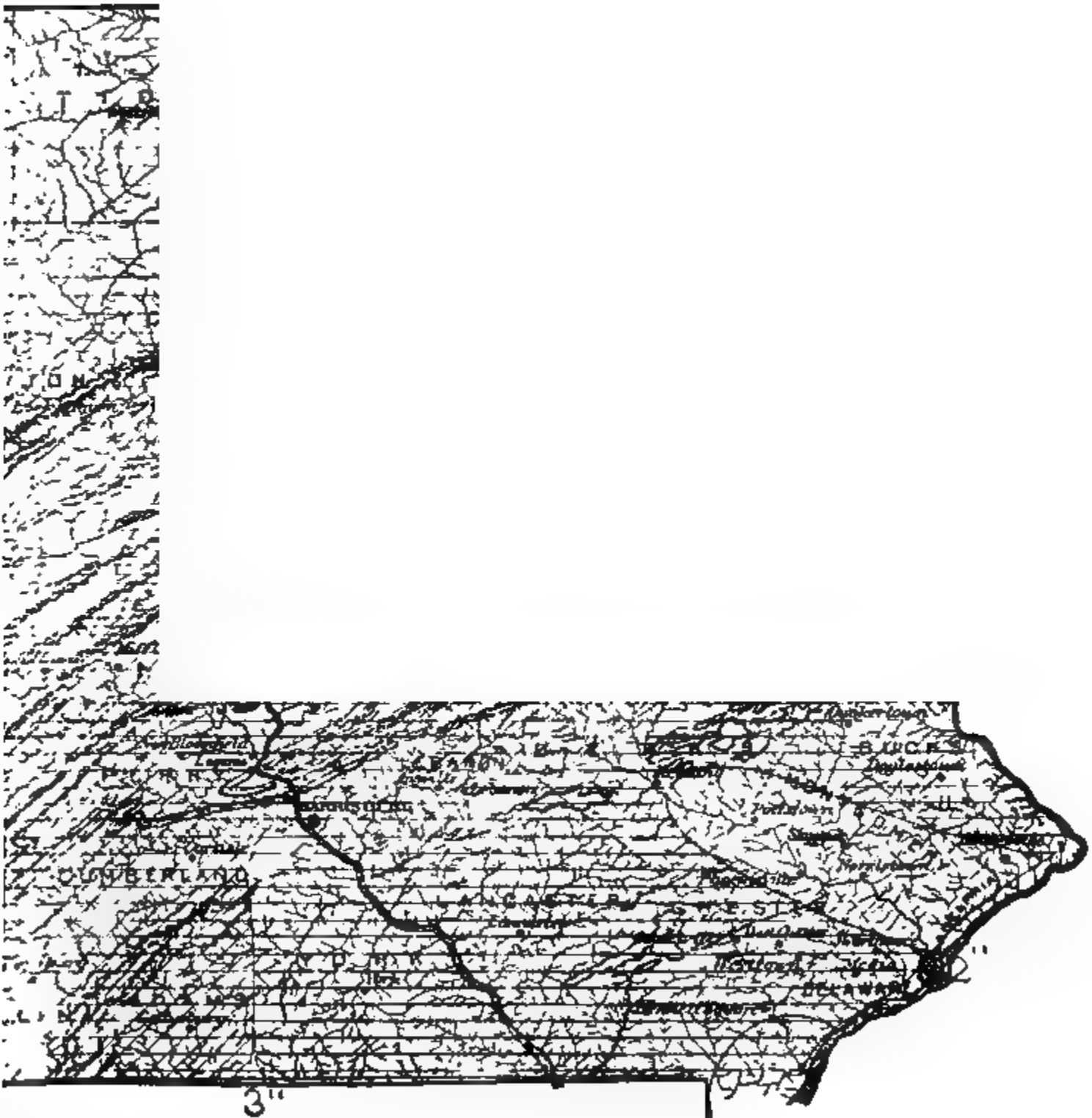
2 to 3



3

ATION, MARCH, 1897.

3'



Wm. H. H. H.

**Aurora.**—Coopersburg, Lawrenceville, Le Roy, 4th; Hamlington, 26th.

**Solar Halo.**—Harrisburg, 11th, 12th; Philadelphia; Centennial Avenue, 11th, 17th, 22d.

**Lunar Halo.**—Carlisle, State College, Towanda, West Chester, 11th, 13th; Philadelphia Weather Bureau, Pittsburgh, 15th; Hallstead, 11th, 13th, 17th; Harrisburg, 11th, 13th, 15th; Philadelphia, Centennial Avenue, 11th, 15th; Quakertown, 13, 15; Swiftwater, 11th.

Climatological Data for Pennsylvania, March, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.				
				Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
Altoona, .....	Blair, .....	1,181	8	40.0	+1.6	70	20	17	1	38	3.44	+0.56	0.71	.....	14	9	6	16	NW
Aqueduct, .....	Perry, .....	367	7	41.6	+2.7	67	21	20	7	37	1.93	-1.72	0.36	2.5	13	5	10	16	NW
Blooming Grove, .....	Pike, .....	367	31	33.6	+2.4	60	30	3	1	38	3.69	+0.11	0.99	7.5	13	13	1	12	W
Brookville, .....	Jefferson, .....	1,173	11	.....	.....	.....	.....	.....	.....	.....	4.96	+2.60	0.90	3.1	19	13	1	12	W
Cannonsburg a, .....	Washington, .....	936	23	45.4	+6.3	72	30	24	15	37	1.01	-1.95	0.32	0.5	13	11	10	9	W
Carlisle, .....	Cumberland, .....	480	43	41.0	+3.4	70	21	21	7	36	2.90	+0.06	0.85	3.5	14	15	6	10	W
Casandra, .....	Cambria, .....	2,100	.....	40.3	.....	66	20	14	2	32	3.70	.....	0.62	7.5	16	7	11	13	SW
Centre Hall, .....	Centre, .....	1,100	.....	37.7	.....	66	20	12	13	32	5.08	.....	0.78	4.0	16	12	6	13	W
Chambersburg, .....	Franklin, .....	1,000	33	40.0	+2.6	69	21	19	1	38	3.40	+1.79	20.64	2.0	13	9	4	13	W
Coatesville, .....	Chester, .....	240	8	42.3	+5.6	75	22	13	17	33	2.15	-2.73	0.51	1.0	11	15	7	9	8
Confluence, .....	Somerset, .....	1,324	21	39.6	.....	70	21	19	1	40	4.33	+0.71	0.05	6.0	21	9	2	20	NW
Coopersburg, .....	Lehigh, .....	620	6	41.4	+5.3	67	30	13	1	31	2.77	-1.66	0.80	3.0	12	15	5	11	NW
Derry Station, .....	Westmoreland, .....	1,172	.....	39.9	.....	74	21	13	4	46	4.89	.....	0.78	3.5	19	14	4	9	W
Drifton a, .....	Luzerne, .....	1,633	.....	38.3	.....	62	23	10	1	29	2.33	.....	1.00	4.8	10	9	5	16	SE
Dunmore, .....	Lackawanna, .....	1,117	.....	34.3	.....	67	23	6	16	39	2.48	.....	0.83	1.5	10	13	9	9	SW
Dushore, .....	Sullivan, .....	1,580	.....	34.0	.....	59	22	0	1	33	2.06	.....	0.67	1.4	11	15	6	10	N
Dyersburg, .....	Wayne, .....	1,100	31	32.9	+4.0	61	22	3	1	39	3.23	+0.11	0.90	5.0	17	11	3	17	NW
Easton, .....	Northampton, .....	825	12	39.0	+3.1	66	22	16	1	36	0.82	-2.51	0.40	3.0	10	13	7	12	.....
Edinboro, .....	Erie, .....	1,220	7	35.2	+3.0	60	22	10	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	W
Emporium, .....	Cameron, .....	1,060	8	37.8	+3.2	69	20	16	1	35	2.79	+0.02	0.48	.....	17	6	8	17	W
Erie, .....	Erie, .....	1,400	24	36.4	+4.4	60	30	7	1	35	2.79	-1.32	0.39	.....	11	16	2	13	E
Forks of Neshaminy, .....	Bucks, .....	304	7	41.9	+3.6	.....	.....	.....	.....	.....	2.28	-1.32	0.39	.....	11	16	2	13	E
Franklin, .....	Venango, .....	965	24	39.4	+7.0	68	30	11	1	40	4.91	+1.49	0.69	3.5	13	8	11	12	SE
Gettysburg, .....	Adams, .....	72	21	41.4	+2.5	72	21	20	1	40	0.63	-2.33	20.32	.....	4	14	8	9	SW
Grampian, .....	Clearfield, .....	1,450	37	36.8	+6.1	68	20	13	7	44	4.25	+0.53	0.70	4.5	15	4	14	13	W
Greensboro, .....	Greene, .....	768	7	46.4	.....	73	30	24	24	40	3.54	+0.53	0.55	1.0	13	7	12	12	W





Climatological Data for Pennsylvania, March, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing direction of wind.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.		Number partly cloudy days.	Number cloudy days.
Wellboro, .....	Tioga, .....	1,227	17	34.9	+4.1	65	22	-1	1	33	3.55	0	2.01	7.5	8	13	5	13	W
West Chester, .....	Chester, .....	455	41	41.8	+4.4	67	22	21	17	26	2.56	-2.01	0.74	0.2	12	12	6	13	W
Westtown c, .....	Chester, .....	350	8	41.0	+4.0	66	22	18	17	30	.....	.....	.....	T	.....	10	8	10	SW
White Haven, .....	Luzerne, .....	1,150	.....	34.9	.....	61	22	6	1	27	2.22	.....	0.62	3.5	12	8	14	9	S
Wilkes-Barre, .....	Luzerne, .....	575	11	38.4	+4.4	68	30	12	1	33	3.78	+0.33	0.33	6.0	7	17	0	14	S
Williamsport, .....	Lycoming, .....	530	6	33.8	+6.9	64	30	14	1	30	3.00	-0.50	0.68	2.0	12	16	5	10	W
York, .....	York, .....	385	8	42.4	+4.8	69	21	22	27	30	2.51	-1.33	0.65	T	13	12	9	10	W

\*Extremes of temperature from observed readings of dry thermometers.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. +9 p. m. + 4. 2 Mean of 8 a. m. + 8 p. m. + 2.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "h" denotes 14 days missing.

Maximum and Minimum Temperatures for Pennsylvania, March, 1897.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	35	17	47	31	58	30	42	23	57	33	57	27	47	17	36	27	48	33	50	34	57	28
Aqueduct, .....	38	24	50	36	60	28	42	30	39	34	47	26	42	20	38	29	43	34	54	40	61	24
Blooming Grove, .....	23	-3	42	14	45	33	43	19	40	15	46	28	34	12	32	11	36	28	50	34	53	29
Brookville, .....	42	27	49	40	56	30	49	26	53	36	59	30	46	25	34	22	59	48	63	39	64	23
Cannonsburg, .....	35	23	50	29	57	35	46	23	47	30	42	30	42	20	28	25	42	33	58	35	59	28
Carlisle, .....	36	24	46	14	54	31	40	21	56	36	36	33	40	21	41	23	52	40	76	40	55	34
Cassandra, .....	30	16	41	30	52	34	37	23	53	35	28	14	35	25	39	32	40	30	50	35	62	29
Centre Hall, .....	38	19	50	25	58	33	43	27	48	27	51	33	40	21	37	23	41	31	55	35	58	25
Chambersburg, .....	36	20	63	33	58	35	47	29	47	26	50	24	43	25	38	24	43	34	66	39	63	27
Coatesville, .....	36	19	40	26	51	30	61	25	45	35	41	25	47	20	36	29	45	23	63	23	55	25
Confluence, .....	36	18	54	35	59	38	49	29	38	30	44	35	49	23	39	24	43	32	57	41	60	34
Coopersburg, .....	34	10	46	25	51	27	45	23	36	23	49	25	40	20	37	14	39	33	45	38	50	31
Derry Station, .....	23	12	44	33	48	23	37	21	42	29	39	11	38	13	36	19	49	32	46	26	54	20
Drifton, .....	31	0	42	30	52	30	32	22	40	23	46	18	35	11	37	18	42	30	50	26	51	21
Dunmore, .....	27	-3	43	27	47	33	33	23	42	17	38	30	32	10	39	10	41	28	46	35	52	23
Dushore, .....	33	16	49	32	55	34	37	30	37	27	46	35	37	20	37	24	43	31	56	35	53	22
Dyberry, .....	35	16	39	30	52	28	33	24	42	30	53	24	42	16	40	25	46	35	45	30	53	24
Easton, .....	42	7	42	25	51	26	36	22	56	36	38	17	36	16	53	34	53	46	57	34	47	25
Emporium, .....	38	20	46	28	52	32	36	22	52	33	43	25	41	17	54	30	54	39	57	32	54	26
Erie, .....	32	16	42	36	50	26	34	20	43	32	36	28	49	23	42	23	42	27	67	31	62	34
Franklin, .....	29	7	42	35	59	39	47	24	72	33	61	37	56	30	68	41	65	44	60	40	60	26
Gettysburg, .....	30	0	38	30	50	23	35	23	39	20	44	23	38	19	58	32	55	45	58	32	52	31
Grampian, .....	35	17	39	33	56	32	42	29	43	22	46	41	41	26	35	27	41	34	56	39	53	29
Greensburg, .....	38	7	39	7	48	34	47	23	37	22	43	28	38	15	41	13	45	32	48	39	48	29
Greenville, .....	37	23	47	33	57	34	41	30	44	33	47	28	38	24	36	27	42	35	55	39	56	24
Hallstead, .....	36	20	47	29	56	31	44	24	45	30	55	31	43	29	40	26	50	33	51	36	60	26
Harrisburg, .....	35	20	37	18	59	34	45	26	47	23	59	36	42	19	65	40	45	33	49	36	59	24
Hollidaysburg, .....	36	20	47	29	56	31	44	24	45	30	55	31	43	29	40	26	50	33	51	36	60	26
Honedale, .....	35	20	37	18	59	34	45	26	47	23	59	36	42	19	65	40	45	33	49	36	59	24
Huntingdon, .....	35	20	37	18	59	34	45	26	47	23	59	36	42	19	65	40	45	33	49	36	59	24

Maximum and Minimum Temperatures for Pennsylvania, March, 1897—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Indiana, .....	45	24	56	36	34	33	52	23	66	35	52	21	58	31	71	38	66	55	71	30	59	34
Irwin, .....	38	23	45	33	59	31	41	23	59	33	53	33	44	23	47	27	58	38	59	37	58	28
Johnstown, .....	36	22	62	38	59	42	58	30	44	27	50	32	41	25	39	26	43	26	67	36	60	28
Kennett Square, .....	33	—3	38	29	52	30	40	23	39	28	46	24	34	10	43	21	48	33	47	39	49	23
Lawrenceville, .....	35	20	47	32	57	37	42	29	39	29	44	31	39	21	35	26	40	24	54	37	57	26
Lebanon, .....	30	3	35	25	51	26	28	18	40	24	41	14	31	7	35	19	40	28	46	32	50	26
Le Roy, .....	34	16	40	29	54	32	42	28	39	30	43	27	43	19	34	25	40	33	55	30	57	27
Lewistown, .....	37	15	39	28	49	33	55	26	48	24	45	33	43	17	44	20	46	24	50	25	59	26
Lock Haven, .....	35	15	47	33	57	42	57	20	47	21	50	36	40	20	45	29	58	34	62	47	51	35
Lycippus, .....	30	12	47	29	51	38	42	28	35	23	43	30	41	17	35	17	39	31	55	33	53	25
Mauch Chunk, .....	39	23	60	37	68	37	42	32	49	33	52	37	36	28	44	30	47	37	62	43	59	33
Philadelphia (a), .....	38	23	60	37	68	48	45	32	45	33	53	38	33	26	41	29	46	37	62	44	60	37
Philadelphia (b), .....	49	26	49	44	57	31	44	25	59	40	58	31	47	24	64	35	60	47	60	40	59	37
Pittsburgh, .....	35	23	60	36	60	42	42	33	40	34	50	34	40	24	37	29	43	35	60	44	60	30
Pottstown, .....	35	16	56	31	57	36	41	28	36	24	43	33	39	21	34	19	42	28	59	39	57	23
Quakertown, .....	34	14	37	31	47	34	40	25	40	23	49	31	45	17	39	19	44	35	43	33	53	35
Renova, .....	37	—6	40	26	48	24	35	17	49	27	53	24	45	13	57	27	55	41	55	31	55	23
Saegertown, .....	31	7	42	30	50	35	41	29	40	25	43	27	43	15	42	20	40	30	43	38	51	32
Scranlon, .....	36	15	38	30	47	34	41	27	42	27	43	35	43	13	42	24	44	33	53	35	47	35
Selinsgrove, .....	38	4	40	30	50	25	40	20	42	24	52	20	42	8	42	22	48	34	44	34	43	24
Shingle House, .....	37	19	53	34	58	37	50	24	45	23	52	30	40	23	47	20	44	33	60	40	60	23
Shippack, .....	34	4	36	32	49	37	33	18	42	28	36	23	45	12	40	24	45	32	47	34	54	23
Smethport, .....	36	14	46	34	58	32	43	20	53	33	48	30	40	20	46	26	48	30	54	34	56	23
Somerset, .....	39	24	48	36	40	26	36	29	38	30	46	34	38	26	39	28	36	24	39	30	40	29
South Bethlehem, .....	21	5	43	30	51	32	37	25	39	23	42	21	39	15	38	20	43	31	50	35	47	35
South Eaton, .....	33	15	46	32	53	31	37	24	43	30	54	27	38	15	33	24	42	32	49	33	54	23
State College, .....	55	7	36	30	48	23	19	48	37	19	39	19	39	12	37	23	50	37	45	35	51	23
St. Marys, .....	39	20	57	37	58	46	45	33	48	35	51	28	37	28	43	31	47	38	61	34	58	27
Swiftwater, .....	29	4	45	23	47	31	38	25	34	21	40	30	33	15	30	14	37	29	54	33	51	30

	32	6	40	29	53	29	32	25	41	26	49	23	36	14	40	22	43	33	51	38	54	20
Towanda, .....																						
Uniontown, .....																						
Warren, .....	34	6	39	30	43	29	29	19	43	25	50	27	46	14	52	38	49	36	49	33	44	24
Wellsboro, .....	30	—1	36	30	52	23	34	20	41	30	38	16	36	10	40	14	43	30	46	28	54	25
West Chester, .....	35	21	53	34	57	43	44	30	46	31	49	34	37	25	37	27	43	35	63	42	58	33
Westtown, .....	36	22	56	34	57	42	45	30	46	28	50	35	37	35	37	27	43	32	63	42	.....	.....
White Haven, .....	29	6	46	28	53	25	43	23	38	23	40	26	38	14	32	17	42	29	48	34	52	28
Wilkes-Barre, .....	32	12	45	30	56	35	46	30	35	28	42	25	41	17	41	21	51	31	50	32	56	27
Williamsport, .....	35	14	40	32	48	34	40	27	38	31	42	31	42	13	25	20	44	33	50	38	57	27
York, .....	37	22	53	35	63	34	45	31	47	31	53	35	49	24	39	26	42	35	61	40	58	28



Huntingdon, .....	67	38	65	28	49	30	45	28	43	26	46	25	45	37	45	24	73	40	66	46	53	33
Indiana, .....	66	21	55	31	44	22	38	23	48	35	69	36	46	38	48	24	73	40	66	46	53	33
Irwin, .....	66	40	53	26	48	32	46	29	42	26	53	22	48	38	58	46	72	48	63	45	59	39
Johnstown, .....	61	39	53	31	47	30	46	29	41	27	46	18	41	36	47	39	52	42	59	39	70	59
Kennett Square, .....	57	28	42	26	43	26	41	26	36	21	45	27	42	37	46	40	87	41	67	38	69	45
Lancaster, .....	52	20	53	22	43	23	39	22	34	15	50	11	50	24	59	41	64	43	57	38	68	29
Lawrenceville, .....	52	32	54	30	43	27	43	30	38	25	40	20	44	34	45	39	53	41	65	43	64	39
Lebanon, .....	47	32	32	17	35	19	32	13	25	12	44	10	42	32	50	34	57	39	56	36	59	30
Le Roy, .....	56	35	43	28	45	27	45	25	38	24	43	19	43	35	46	43	58	41	64	39	54	33
Lewisburg, .....	68	39	72	26	43	28	47	27	44	22	43	17	43	34	45	38	65	67	41	65	33	43
Lock Haven, .....	54	39	62	24	41	23	49	23	39	22	42	26	55	41	59	50	66	58	68	39	68	45
Lycippus, .....	51	34	40	29	45	24	43	18	35	21	47	13	39	33	45	36	47	41	63	41	56	30
Mauch Chunk, .....	54	42	45	34	45	31	46	34	40	28	45	23	43	37	49	42	51	41	65	40	68	42
Philadelphia (a), .....	52	41	50	34	43	31	49	32	41	28	46	25	42	37	48	41	51	43	67	40	67	43
Philadelphia (b), .....	63	32	40	26	51	32	43	27	40	27	54	29	60	42	37	48	51	43	67	40	67	43
Pittsburgh, .....	52	42	48	32	44	28	41	30	40	28	46	22	42	38	46	42	50	44	66	44	68	40
Pottstown, .....	49	36	42	29	39	25	41	27	34	22	43	16	40	32	45	37	47	40	63	38	63	35
Quakertown, .....	66	37	54	25	44	28	43	21	40	20	46	18	44	35	48	39	70	42	68	41	52	34
Renova, .....	57	37	40	18	40	26	37	17	44	8	49	15	55	55	62	40	65	49	62	36	64	30
Saegertown, .....	49	35	46	24	38	22	39	25	35	19	44	13	40	32	49	36	56	35	35	47	60	45
Scranton, .....	59	35	42	28	45	26	47	25	40	23	42	18	42	34	47	37	54	38	66	37	54	33
Selinsgrove, .....	60	36	36	18	42	24	36	18	34	12	44	32	48	34	53	38	58	34	68	38	63	28
Shingle House, .....	55	40	46	30	40	26	42	22	44	24	40	15	46	37	47	39	48	40	65	40	70	32
Skippack, .....	61	33	35	19	40	24	37	20	31	14	47	12	44	34	52	37	67	42	58	38	68	28
Smethport, .....	60	38	40	20	38	24	40	20	40	22	46	20	52	22	56	50	66	46	60	38	62	42
Somerset, .....	38	30	39	32	41	36	39	32	44	33	40	22	46	36	50	39	49	33	62	42	63	40
South Bethlehem, .....	47	33	38	25	43	23	40	28	31	19	43	12	40	33	48	35	53	41	60	44	64	30
South Easton, .....	62	38	42	24	44	29	39	27	37	21	44	18	42	35	46	38	70	44	61	45	54	34
State College, .....	60	38	33	19	40	25	35	20	37	16	45	25	44	33	50	35	65	40	58	38	62	32
St. Marys, .....	53	34	44	32	42	32	43	30	37	22	49	12	44	39	48	43	52	41	65	40	63	44
Swiftwater, .....	47	34	45	25	39	21	37	15	29	15	43	11	36	33	43	34	43	38	55	37	55	31
Swarthmore, .....	49	32	43	23	42	24	38	20	31	18	41	13	43	35	49	38	60	42	58	39	63	30
Towanda, .....	60	35	40	20	38	25	37	21	39	15	48	16	46	36	60	41	62	46	67	39	63	33
Uniontown, .....	52	34	34	21	42	24	35	22	32	18	46	15	46	34	54	35	62	40	62	35	65	32
Warren, .....	55	40	50	31	42	30	43	31	38	27	45	21	40	36	47	40	53	42	65	40	67	43
Wellsville, .....	57	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Chester, .....	50	31	48	24	41	21	38	19	34	18	41	18	38	32	44	34	45	38	56	35	54	28
Westtown, .....	53	36	40	26	42	24	43	24	34	21	46	16	42	33	46	38	54	37	62	42	60	32
White Haven, .....	49	37	40	27	46	20	43	27	36	22	42	19	44	35	47	38	60	42	62	40	54	35
Wilkes-Barre, .....	64	39	54	31	47	29	45	28	39	30	47	22	43	37	47	40	65	44	69	46	68	38
Williamsport, .....																						
York, .....																						



	51	41	48	38	41	29	42	38	43	23	50	29	60	30	72	32	62	35	51.9	30.8
Huntingdon, .....																				
Indiana, .....																				
Irwin, .....																				
Johnstown, .....	56	48	54	33	32	26	33	36	33	25	45	29	61	25	70	33	65	35	51.9	32.1
Kennett Square, .....	66	44	54	40	45	32	45	29	46	23	49	29	57	27	68	35	63	32	52.1	32.0
Lancaster, .....	64	40	50	30	43	24	42	26	44	28	46	27	53	37	56	36	65	28	51.0	32.0
Lawrenceville, .....	61	35	51	39	42	29	33	36	38	19	39	21	49	20	57	45	58	23	47.4	26.3
Lebanon, .....	63	46	54	38	41	33	43	30	46	25	48	30	54	25	67	37	53	34	48.4	31.7
Le Roy, .....	50	32	44	30	32	24	33	33	33	17	38	30	49	22	56	31	40	30	41.3	23.5
Lewistown, .....	56	37	58	36	40	30	44	29	44	24	50	28	57	25	68	35	59	30	48.0	23.6
Lock Haven, .....	58	43	55	37	46	32	46	28	44	20	52	26	62	24	74	34	68	30	52.5	23.8
Lycippus, .....	63	43	53	36	44	24	34	21	36	20	37	24	44	27	60	34	63	46	51.6	32.4
Mauch Chunk, .....	70	43	50	38	39	32	43	28	43	21	46	28	53	25	68	33	57	32	47.1	28.6
Philadelphia (a), .....	66	47	53	40	43	35	45	32	44	30	45	33	56	25	68	33	60	41	50.8	35.4
Philadelphia (b), .....	65	48	54	41	46	36	43	31	47	29	48	32	56	32	64	41	60	41	51.2	35.6
Pittsburgh, .....	54	43	49	30	38	27	39	27	38	27	46	30	59	31	68	37	62	41	54.0	35.0
Pottstown, .....	68	48	50	42	42	34	45	31	46	26	43	32	58	30	68	40	60	40	50.4	34.7
Quakertown, .....	67	44	50	37	42	31	44	27	44	22	44	28	54	27	65	34	53	35	47.8	29.8
Renova, .....	51	43	48	34	35	31	41	28	42	23	49	30	59	22	70	35	59	30	48.7	29.0
Saegertown, .....	63	52	50	35	39	31	38	23	35	15	41	17	60	18	65	37	60	26	49.8	24.5
Scranton, .....	48	39	50	40	47	29	49	29	43	22	43	23	57	28	67	30	67	29	48.1	23.2
Selma Grove, .....	61	35	42	30	38	24	36	22	38	15	44	20	48	24	57	33	60	20	46.9	25.2
Shingle House, .....	68	42	52	40	44	33	45	28	38	13	49	25	56	22	67	30	63	30	50.8	29.4
Skippack, .....	55	36	43	32	32	24	36	24	35	14	43	20	57	18	65	34	54	24	46.0	25.3
Smethport, .....	54	46	56	26	30	20	32	22	40	13	46	22	50	24	63	30	58	32	49.2	23.7
Somerset, .....	52	38	49	36	49	33	52	34	60	36	58	34	56	32	52	36	60	41	46.4	33.0
South Bethlehem, .....	60	40	50	37	40	31	41	27	38	23	42	25	51	23	61	32	54	26	46.3	27.4
State College, .....	54	43	46	30	32	20	36	23	37	23	46	29	55	24	56	33	56	36	46.4	30.0
St. Marys, .....	46	38	42	26	30	24	35	21	36	16	42	18	63	19	64	30	54	23	45.2	25.2
Swarthmore, .....	65	43	52	35	43	32	43	26	44	33	45	30	53	36	65	43	64	34	50.2	34.4
Switzwater, .....	61	38	46	35	37	30	38	24	39	21	41	28	49	24	58	32	54	28	43.0	26.2
Towanda, .....	57	35	43	35	33	31	39	27	37	23	42	25	50	22	59	35	51	23	45.5	27.5
Uniontown, .....																				
Warren, .....	62	34	56	34	35	26	36	24	34	16	39	19	57	20	57	32	63	22	47.8	26.9
Wellsville, .....	50	34	43	32	36	25	38	25	38	21	38	19	44	22	64	32	54	25	44.6	26.2
West Chester, .....	64	47	51	41	42	34	43	29	43	25	45	31	55	29	65	41	59	39	49.6	33.9
Westtown, .....	66	47	52	40	43	33	42	29	43	24	45	30	53	26	64	36	58	37	49.4	32.7
White Haven, .....	61	41	46	34	33	28	26	25	35	19	36	25	50	23	59	33	52	28	43.8	26.0
Wilkes-Barre, .....	65	42	57	36	41	31	43	27	42	23	46	27	56	25	64	35	59	29	48.2	23.5
Williamsport, .....	56	44	47	37	53	35	42	28	40	29	46	29	55	26	68	38	55	34	46.8	30.9
York, .....	63	47	55	40	50	32	46	28	44	22	43	29	54	24	67	38	49	37	51.9	33.0



Daily Precipitation for Pennsylvania, March, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
<b>Delaware Basin.</b>																
Bethlehem, .....					.57							.06		.35		
Brooming Grove, .....	.20	*	.35		.33			.02		.18		.10		.50		
Browers' Lock, .....			.05		.19	.05						.20		.20		
Coatesville, .....			.06		.27			.03				.11		.23		
Coopersburg, .....			.03		.03			.01		.03		.13		.41		
Doyletown, .....			.21		.24							.65			.23	
Dyersburg, .....	.03	.20	.09		.37			.03		.07		.06		.36		
Easton, .....	†	*	.01		*	.07		.01				.01		.30		
Forks of Neshaminy, .....			.07		.16	.02		.11				.32		.35		
Frederick, .....			.05		.34	.11				.01		.15		.19		
Hamburg, .....			.04		.71			†		.18		.15		.41		
Hamilton, .....	.04	.01	.35	.02	.22	.13				.31	.02	.06		.40		
Honesdale, .....																
Kenrett Square, .....			.18		.20	.01		.03		.05		.24		.32		
Lansdale, .....			.06		.20							.19		.21		
Mauch Chunk, .....	†		.13		.57	.03				.09		.19		.69		
Ortville, .....			.24		.34					.07				.43		
Philadelphia (a), .....	†		.14		.06	.01		†		.02		.25		.25		
Philadelphia (b), .....	†		.15		.06	.02		†		.03		.25		.34		
Point Pleasant, .....	.03				.43							.27				
Pottstown, .....					.70							.15		.35		
Quakertown, .....	†	†	.12		.44	.03			†	.03		.23		.38		†
Reading, .....			.01		.45			.01				.01		.28		
Seisholtzville, .....			.60											.33		
Shawmont, .....			.13		.09			.02				.23		.20		
Skippack, .....			†		.35							.20		.20		
Smith's Corners, .....			.11		.48	.03						.29		.30		
Swiftwater, .....	.08	†	.19		.77			†				†		.44		
West Chester, .....			.13		.16					.03		.26		.25		
White Haven, .....		.07	.19		.42	†		†				.03		.37		

## Susquehanna Basin.

Altona, .....	.15	.14	.11	.71			.03	.13				.13
Aqueduct, .....	.01	.04	.12	.23			.06			.19		.85
Carlisle, .....	.03	.06	.38	.86				.15		.12		.83
Centre Hall, .....	.20	.40	.61				.22		.16	.07	.22	
Drifton a, .....	.05	.25	.26	.05			.01					.20
Dunmore, .....	•		.23	.30				.14		.07		.16
Dushore, .....	.12	.23	.23	.76			†	†		.15		.08
Emporium, .....	.24	.62	.24				.03	.13		.11		.11
Gettysburg, .....				.10								.10
Girardville, .....	.10	.30		.23						.06	.48	
Grampian, .....	.15	.30	.33	.70			.03	.30		.08		.30
Hallstead b, .....	.11	•	.41	.47			.05	.15		.08	†	.21
Harrisburg, .....	†	†	.09	.73			†	.01	.06	.13		.26
Hollidaysburg, .....	.20	.15	.09	.63				.09		.10		.35
Huntingdon, .....	.10	.10	.40	.75			.12					.36
Lancaster, .....												
Lawrenceville, .....	.23	†	†	.22			.10					.03
Lebanon, .....	†	.01	.07	.73			.02	.03		.17		.38
Le Roy, .....	.10	.30	.15	.01			.02	.10		.25		.17
Lewisburg, .....	.10	.27	.15	.78			.03			.27		.30
Lock Haven, .....	.20	.30	.14	.53					.11	.09		.10
Renova, .....	.18	.27	.23	.46			†	.18		.10		.22
Scranton, .....	.20	.19	.23	.40						.21		
Sellingrove, .....		.12	.21	.60						.35		.25
South Eaton, .....	†	.17	.14	.42				.09		.10		.14
State College, .....	.15	.20	.34	.95			.02	.14		.16		.34
Towanda, .....	†	.20	.02	.13			.06	.09		.03		.06
Towanda, .....	†	.20	.02	.13			†			†		.20
Wellboro, .....	.35	.20	.10	.54						.05		.46
Williamsport, .....	.26	†	.42	.90			.04	.05		.08		.11
York, .....	†	.02	.05	.46			.07	.01		.08		.26

## Ohio Basin.

Beaver Dam, .....		.46	.03	.48			.19	.16				.06	.02
Brookville, .....	.12	.21	.82	.90			.14	.52		.20	.01	.10	
Cannonsburg a, .....				.06								.04	
Cassandra, .....	.20	.21	.13	.10			†	.15		.02		.03	
Confluence, .....	.18	.08	.21	.15			.10	.05	.13	.02	.01	.06	.33
Davis Island Dam, .....	.03	.17	.36	.62				.16	.22	†	†	.13	.01
Derry Station d, .....	.15	.11	.49	.64			.18	.08		.01		.12	
Du Bois, .....	.05	.18	.74	.53			.05	.40		.10			
Elwood Junction, .....	.01			.37			.21			†		†	

Daily Precipitation for Pennsylvania, March, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Franklin, .....	.13	.65	.31	†	.69	.....	.....	.15	.22	.16	.....	†	.45	.....	.....	.....
Freeport, .....	.06	.18	.61	.14	.56	.55	.....	.....	.24	.40	.....	.....	.....	.11	.06	.....
Greensboro, .....	.06	.03	.20	.10	.55	.22	.....	.....	.06	.15	†	.....	.....	.30	†	.....
Greenville, .....	†	1.25	.34	.....	1.00	.....	.....	.....	.29	.38	.....	.01	.....	.23	.....	.....
Indiana n., .....	.12	.34	.....	.67	2.1	.....	.....	.06	.20	.....	.01	.....	.20	.....	.....	.....
Irwln, .....	.06	.14	.35	.....	.29	.....	.....	.15	.11	.19	.....	.04	.....	.01	.03	.21
Johnstown, .....	.10	†	.....	.....	.15	.73	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lock No. 4, .....	.06	.23	.06	.51	.11	.....	.....	.16	.09	.....	.02	.....	.15	.....	.14	.....
Lycippus, .....	.06	.24	.74	.13	.30	.47	.....	.....	.16	.39	.....	.11	.....	.37	.16	.....
Oil City, .....	.03	†	.75	.15	.33	.77	.....	.....	.16	.54	.....	.04	.....	.....	.20	.....
Parkers Landing, .....	.16	.22	.08	.....	.35	.....	.....	.02	.29	.06	.....	.....	.....	.15	.....	.....
Pittsburgh, .....	.05	.15	.70	.....	.33	.64	.....	.....	.05	.26	.....	.09	.....	.10	.11	.....
Ridgway, .....	.10	.55	.40	.....	.25	.....	.....	.....	.20	.38	.....	.....	.....	.30	.....	.....
Saegertown, .....	.....	.....	.....	.....	.40	.....	.....	.....	.63	.....	.....	.16	.....	.....	.....	.....
Shingle House, .....	.....	.....	.....	.....	.70	.....	.....	.....	.27	.55	.....	.20	.....	.20	.....	.....
Smethport, .....	.20	.40	.50	.....	.....	.....	.....	.....	.40	.25	.....	.....	.46	.25	.....	.....
Somerset, .....	.20	.15	.....	.....	.46	.....	.....	.....	.40	.25	.....	.....	.14	.13	.....	.....
St. Marys, .....	.51	.....	.77	.04	.91	.....	.....	.....	.....	.30	.....	.....	.....	.....	.....	.....
Uniontown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Warren, .....	.12	.07	.23	.....	.26	.....	.....	.....	.23	.09	.....	.11	.03	.14	.....	.....
West Newton, .....	.10	†	.41	.....	.63	.27	.....	.....	.13	.18	.....	.....	.....	.13	.....	.....
Potomac Basin.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chambersburg, .....	.01	.....	.15	.....	.64	.....	.....	.....	.23	.....	.....	.24	.....	.20	.....	.....
Lake Basin.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erie, .....	.04	.30	.35	.....	.10	.....	.....	.06	.43	.20	.....	.04	.....	.14	.....	.....

\*Precipitation included in that of following day.

†Trace, when precipitation is less than 0.01 inch.

## Daily Precipitation for Pennsylvania, March, 1897—Continued.

Stations.	Day of Month.														Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.
<b>Delaware Basin.</b>															
Bethlehem, .....			.81	.99		.02		.89							2.50
Blooming Grove, .....		†	•				.06	.92							2.99
Browers' Lock, .....		.14	.81	.29	.29			.53							2.04
Coatesville, .....	.23	.26	.25	.25	.05	.05	.05	.51							2.15
Coopersburg, .....	.08	.47	.38			.01	.06	.56							2.77
Doylstown, .....	.14						.31	.39	.06	.46					2.58
Dyberry, .....	.05	.05	.13	.90	.03	.06	.17	.67	.03	.02					3.23
Easton, .....					.01		•	.01	.40						0.82
Forks of Neeshaminy, .....	.13	.13	.29	.23			.11	.29							2.23
Frederick, .....	.13	.29	.29	.02		.13	.42	.54							3.49
Hamburg, .....	.19														3.81
Hamilton, .....			.08	1.10	.03	.07		.96	.05	.06					
Honesdale, .....			•	1.10		.04	•	.96							
Kennett Square, .....	.35	.29	.30	.30	.04	.03	.14	.85							
Lansdale, .....	.21	.23						.30							3.03
Mauch Chunk, .....	.09	.12	.50			.10		.80							1.40
Ottaville, .....		.54	.30					.90							3.31
Philadelphia (a), .....	.25	.26	.34	.34	.01	.01	.07	.36	†		†	†			2.52
Philadelphia (b), .....	.20	.26	.37	.37	.01	.02	.10	.41	†		†	†			2.03
Point Pleasant, .....	.10	.37					.30	.58							2.21
Pottstown, .....	.20	.55				.08		.50							2.06
Quakertown, .....	.11		.36				.06	.62							2.53
Reading, .....	.11	.34	.06	.06	.02	.02	.53	.70							2.71
Scranton, .....	.10	.33	.33	.02				.64							2.02
Shawmont, .....	.15	.28	.32				.07	.70							2.47
Shippack, .....	.17	.54				†	†	.43	†		†				2.11
Smith's Corners, .....	.10	.37	.29				.04	.53							1.89
Swiftwater, .....	†	.16	.50			†									2.54
West Chester, .....	.26	.29	.29	.03		.04	.08	.74							2.55
White Haven, .....	.04	.07	.33			.06	.03	.62			†	.02			2.22



## Ohio Basin.

Beaver Dam, .....	.16	.10	.41	.08	.....	.09	.01	.48	.15	.....	.02	.....	3.34
Brookville, .....	.11	.13	.68	.....	.....	.08	.02	.74	.13	.01	.....	.....	4.95
Cannonsburg a, .....	.15	.24	†	.....	.....	.....	.....	.32	.03	.....	.....	.....	1.01
Cassandra, .....	.62	.62	†	.....	.....	.55	.15	.27	.20	.06	†	.....	3.70
Confluence, .....	.64	.13	.36	.04	.06	.06	.25	.38	.42	.20	.....	.....	4.38
Davis Island Dam, .....	.20	.44	.31	.06	.02	.13	.33	.62	.04	†	.....	.....	3.72
Derry Station d, .....	.28	.61	.38	.02	.11	.78	.46	.46	.17	.08	.....	.....	4.89
Du Bois, .....	.02	.09	.....	.47	.08	.....	.48	.49	.01	.....	.....	.....	4.23
Elwood Junction, .....	.24	.07	.43	†	.....	.....	†	.50	.15	†	.....	.....	2.63
Franklin, .....	.36	.50	.37	.....	.....	.....	.40	.46	†	.....	.....	.....	4.91
Freepot, .....	.44	.17	.36	.06	†	.....	.23	.65	.18	.....	.03	.04	5.06
Greensboro, .....	.28	.10	.25	.06	.03	.....	.55	.40	.20	.02	.....	.....	3.54
Greenville, .....	.29	.01	.58	.01	.....	.....	.....	.31	.32	.01	†	.....	5.63
Indiana n, .....	.21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	.50	.40	†	.13	.20	.63	.06	.02	.....	.....	.....	.....	4.21
Johnstown, .....	.80	.42	.42	.01	.04	.52	.61	.23	.15	.02	.....	.....	5.36
Lock No. 4, .....	.17	.35	.35	.....	.15	.48	.49	.06	†	.....	.....	.....	2.29
Lycippus, .....	.39	.62	.41	.08	.76	.....	.10	.05	.....	.....	.....	.....	4.15
Oil City, .....	.34	.02	.38	.03	.02	.04	.66	.24	.01	.....	.....	.....	5.36
Parkers Landing, .....	.51	.03	.60	.01	.....	.....	.60	.14	.04	.....	.....	.....	4.96
Pittsburgh, .....	.09	.10	.46	.06	.02	.12	.10	.67	.02	.04	†	.....	3.50
Ridgway, .....	.....	.....	.05	.45	.....	.....	.49	.02	.....	.....	.....	.....	3.49
Saegerstown, .....	.16	†	.26	.....	.....	.20	.24	.32	.25	†	.....	.....	3.69
Shingle House, .....	.....	.....	.....	.....	.....	.50	.32	.52	.....	.....	.....	.....	3.63
Smethport, .....	.....	.....	.10	.30	.....	.06	.....	.65	.....	.....	.....	.....	4.22
Somersett, .....	.52	.60	.51	.....	.61	.70	.85	.20	.16	.....	.....	.....	5.86
St. Marys, .....	.26	.44	.06	.....	.02	.50	.14	.....	.....	.....	.....	.....	4.21
Uniontown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Warren, .....	.....	.....	.20	.....	.....	.03	.15	.66	.22	.01	.....	.....	2.60
West Newton, .....	.20	.60	.42	.....	.....	.15	.60	.58	.13	†	.....	.....	4.58
Potomac Basin.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chambersburg, .....	.55	.25	.30	.....	.80	.13	.50	.....	.....	.....	.....	.....	3.40
Lake Basin.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erie, .....	.11	.03	.27	.02	.14	.28	.22	.02	.....	.....	.....	.....	2.79

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.

## APRIL, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 30.11 inches, is .08 above the normal. At the United States Weather Bureau stations the highest observed was 30.70 inches, at Erie and Pittsburgh, on the 20th, and the lowest, 29.52 inches, at Pittsburgh, on the 9th.

### Temperature.

The means of the daily maximum and minimum temperatures, 61.0 degrees and 36.9 degrees respectively, give a monthly mean of 49.0 degrees, which is 1.1 degrees above the normal, and 4.0 degrees below the corresponding months of 1896.

The average daily range was 24.1 degrees.

The highest monthly mean was 53.0 degrees, at Philadelphia, Centennial Avenue.

The lowest monthly mean was 44.8 degrees, at Le Roy and Smethport.

The highest temperature recorded during the month was 92 degrees, on the 25th, at Gettysburg.

The lowest temperature was 12 degrees, on the 20th, at Blooming Grove.

The greatest local monthly range was 75 degrees, at Dushore.

The least local monthly range was 53 degrees, at Erie.

The greatest daily range was 55 degrees, at Greensboro.

### Precipitation.

The average precipitation for the month, 3.30 inches, is 0.50 inches less than the normal.

The largest totals of rainfall, in inches, were: Uniontown, 4.63; Freeport, 4.29; Grampian, 4.14; Irwin, 4.05; Blooming Grove, 4.01; White Haven, 3.99. The least were: Easton, 1.20; Erie, 1.55; Brookville, 1.85; Cannonsburg, 1.99; Saegerstown, 2.22; Williamsport, 2.25.

### Wind and Weather.

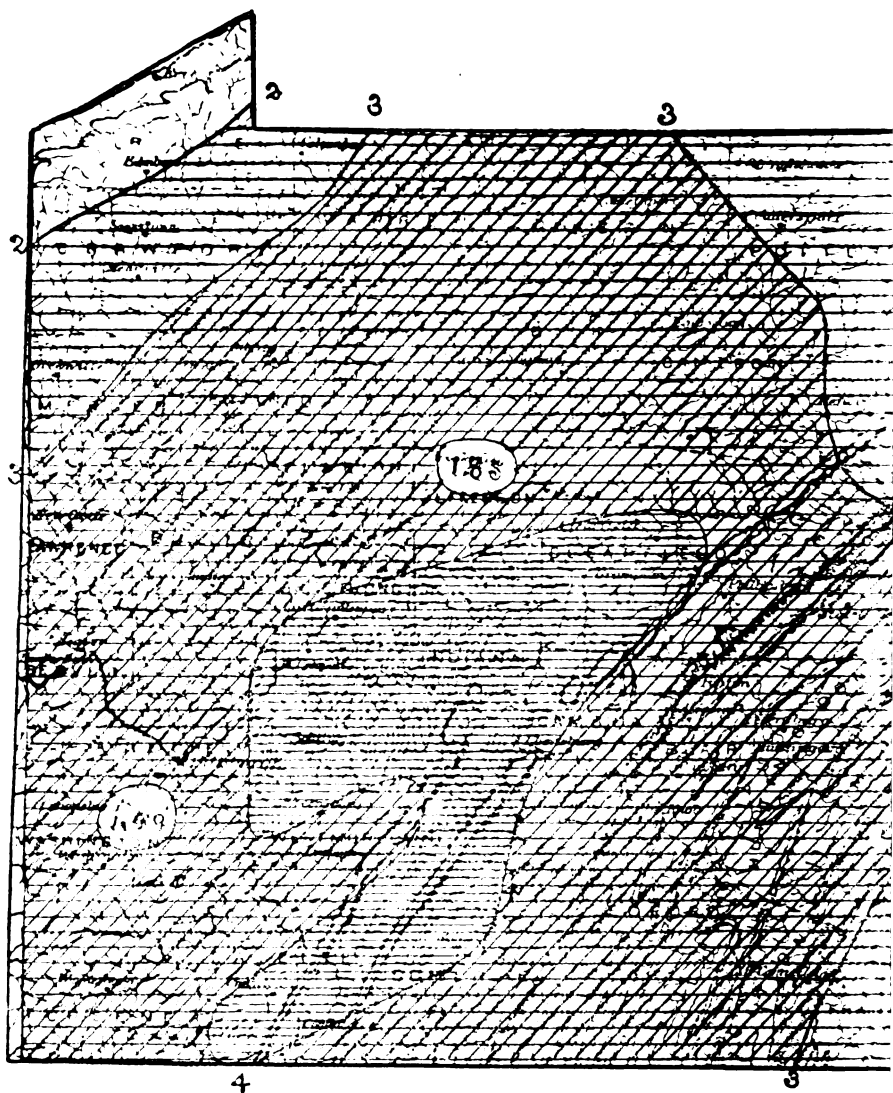
The prevailing wind was from the west.

Average number of rainy days, 10; clear, 12; partly cloudy, 9; cloudy, 9.





# TOTAL PRECIP

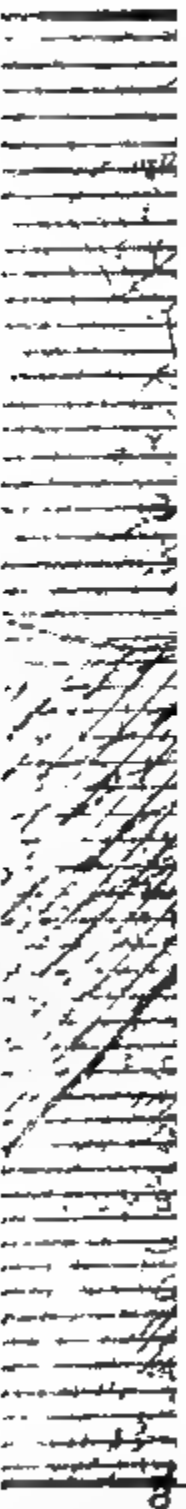


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ATION, APRIL, 1897.



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**Miscellaneous Phenomena.**

**Thunderstorms.**—4, 5, 6, 9, 14, 15, 19, 23, 24, 25, 26, 30.

**Frost.**—1, 2, 3, 4, 7, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 26, 27, 28, 29.

**Aurora.**—Dushore, Dyberry, Le Roy, Quakertown, Saegerstown, Selinsgrove, 1st; West Chester, 12th.

**Solar Halo.**—Harrisburg, 8th, 11th, 14th; Le Roy, 2d, 4th, 13th, 14th; Philadelphia, Centennial Avenue, 2d, 13th, 30th; Saegerstown, 2d.

**Lunar Halo.**—Dushore, Hallstead, Harrisburg, Lewisburg, Wellsboro, 12th; Le Roy, Philadelphia, Centennial Avenue, 12th, 13th; Philadelphia, Weather Bureau, 13th.

## Climatological Data for Pennsylvania, April, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.				Prevailing direction of wind.				
				Mean.				Total.				Number clear days.					Number partly cloudy days.			
				Departure from the normal.	Highest.	Date.	Lowest.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted).	Number rainy days.	Departure from the normal.	Greatest daily range.	Departure from the normal.	Greatest in twenty-four hours.		Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.
Altona, .....	Blair, .....	1,131	8	47.8	-1.2	83	25	22	20	41	3.85	+0.22	0.82	T	14	10	10	NW		
Aqueduct, .....	Ferry, .....	367	7	52.3	+0.2	90	25	26	20	38	2.53	-0.32	0.88	T	8	10	10	NW		
Blooming Grove, .....	Pike, .....	31	45.6	+0.9	86	25	12	20	42	4.01	1.09	-1.09	1.70	T	9	5	13	NW		
Brookville, .....	Jefferson, .....	1,173	11	51.2	+2.3	83	24	27	21	44	1.99	-0.76	0.56	T	12	16	0	SW		
Canonsburg b, .....	Washington, .....	936	23	51.2	+2.3	83	24	27	21	44	1.99	-0.76	0.56	T	9	14	9	SW		
Carlisle, .....	Cumberland, .....	480	48	50.6	+0.5	88	25	24	20	40	2.92	-0.41	0.77	.....	10	19	8	S		
Cassandra, .....	Cambria, .....	2,100	46.4	77	23	20	20	39	3.56	.....	0.92	.....	0.92	T	11	8	12	SW		
Centre Hall, .....	Centre, .....	1,100	48.6	83	25	20	20	33	3.84	.....	1.32	1.0	1.32	1.0	8	17	5	8		
Chambersburg, .....	Franklin, .....	1,060	33	48.3	-1.1	86	24	15	1	43	2.79	+0.05	0.60	.....	8	9	7	W		
Coatesville, .....	Chester, .....	380	8	51.2	+1.8	87	24	24	20	43	3.39	-0.39	1.29	.....	8	16	10	W		
Confluence, .....	Somerset, .....	1,324	21	48.8	.....	83	25	21	21	41	3.33	-0.12	1.06	.....	13	9	5	SW		
Coopersburg, .....	Lehigh, .....	520	6	50.8	+1.4	83	25	24	20	36	3.69	+0.27	1.40	T	9	19	8	3 NW		
Derry Station a, .....	Westmoreland, .....	1,172	49.2	84	26	21	11	46	3.81	.....	0.98	.....	0.98	T	13	11	12	6 W		
Drifton c, .....	Luzerne, .....	1,633	48.1	81	26	17	20	48	3.55	.....	1.50	3.0	1.50	.....	5	15	4	SE		
Dunmore, .....	Lackawanna, .....	1,117	47.0	85	25	15	20	45	3.27	.....	1.25	.....	1.25	.....	9	16	22	2 SW		
Dushore, .....	Sullivan, .....	1,580	45.9	91	25	16	21	49	2.70	.....	1.22	0.3	1.22	0.3	9	17	6	7 W		
Dyberry, .....	Wayne, .....	1,100	31	45.2	+2.8	83	25	18	20	41	3.72	+1.16	1.70	.....	10	12	10	8 W		
Easton, .....	Northampton, .....	325	12	50.1	+1.2	82	25	22	26	34	1.20	-2.13	0.50	T	8	12	11	7		
Edinboro* 1, .....	Erie, .....	1,220	7	43.5	-1.8	72	24	18	20	43	3.49	+0.35	1.10	T	13	12	8	10 W		
Emporium, .....	Cameron, .....	1,050	8	47.2	-1.4	80	24	22	21	36	1.55	-0.87	0.57	.....	13	10	6	14 W		
Erie, .....	Erie, .....	1,400	24	45.0	+1.0	76	22	23	19	36	1.60	-0.86	1.60	.....	10	16	3	11 W		
Forks of Neshaminy 1, .....	Bucks, .....	304	7	52.0	+1.1	.....	.....	.....	.....	2.93	.....	-0.86	1.60	.....	6	12	8	17 SW		
Franklin, .....	Venango, .....	955	24	47.9	+2.6	81	29	22	21	43	3.22	+0.72	1.12	.....	2	22	5	8 SW		
Gettysburg, .....	Adams, .....	27	52.3	+2.4	92	25	30	20	46	.....	1.45	.....	1.45	.....	14	6	11	13 W		
Grampian, .....	Clearfield, .....	1,450	23	46.0	+2.3	80	25	20	20	40	4.14	+0.69	1.20	2.0	14	6	11	13 W		
Greensboro, .....	Greene, .....	768	7	49.8	.....	86	29	20	17	55	3.98	+0.53	1.18	.....	16	6	14	10 SW		

Mercer.	1,000	5	47.2	+1.4	78	29	22	21	40	2.98	+0.19	1.18	13	10	13	7	NW	
Greenville.																		
Hallstead b.			47.0		82	25	19	20	42	2.40		1.29	8	7	14	14	SW	
Berks.	380	5	52.0	+2.6	88	25	25	20	37	3.76	+0.13	2.10	9	11	7	8	W	
Hamburg.	1,600	7	46.7	+2.2	91	26	17	20	31	3.78	+0.21	1.39	T	11	7	8	15	W
Hamilton.					84	25	28	29	34	2.53	-0.09	0.83	9	7	13	10	NW	
Harrisburg.	391	9	50.8	-0.2	84	25	28	29	34	2.53	-0.09	0.83	9	7	13	10	NW	
Dauphin.	947	8	50.6	+1.5	85	25	21	21	46			1.22	6	11	11	3	W	
Hollidaysburg e.	1,000	11								3.96	+1.13	1.70	7	13	11	7	SW	
Honesdale.	660	8	50.2	+1.4	86	25	23	21	43	3.96	+0.61	1.27	9	6	15	9	W	
Huntingdon.	1,350	3	51.2		79	29	30	17	33				10	1	10	SW		
Indiana.	884									4.05		1.11	T	14	16	4	10	
Westmoreland.	1,134	8	49.4	-0.6	82	25	23	20	40	3.98	-0.08	0.94	T	14	12	9	SW	
Cambria.	1,275	6	51.0	+3.2	86	25	24	20	41	3.19	-0.55	0.98	11	17	7	6	S	
Chester.	413	8	49.8	-0.3	85	25	24	19	44				18	6	6	W		
Lancaster.					81	25	19	20	39	2.90		1.05	7	10	8	11	SW	
Tioga.	1,066		47.6		86	23	24	20	37	3.51	T	10	12	12	6	SW		
Lawrenceville a.	468	8	49.9	+0.7	84	25	24	20	40	2.70	-1.33	1.30	0.7	11	5	11	8	SW
Lebanon.	1,470	7	44.8	+0.4	84	25	15	20	40	3.21	-0.14	1.35	0.2	13	16	6	SW	
Le Roy.	1,470	7	44.8	+0.4	84	25	15	20	40	3.21	-0.14	1.35	0.2	13	16	6	SW	
Bradford.	1,470	7	44.8	+0.4	84	25	15	20	40	3.21	-0.14	1.35	0.2	13	16	6	SW	
Lehigh.	450	24	49.9	+1.2	85	25	24	20	45	3.42	-0.04	1.46	9	9	9	12	W	
Union.	560	8	51.8	+3.2	90	25	24	20	45	3.42	-0.04	1.46	13	16	6	5	SW	
Clinton.	1,420	8	50.0	-0.7	80	20	22	20	36	3.93	+0.07	1.57	1.0	8	18	7	8	W
Lock Haven.					87	25	21	21	45	3.29	+0.02	1.32	8	14	8	8	NW	
Lycipp.	560	6	50.0	+2.4	87	25	21	21	45	3.29	+0.02	1.32	8	14	8	8	NW	
Mauch Chunk.	117	26	52.8	+1.8	85	25	27	30	35	3.08	-0.39	1.47	9	14	9	7	NW	
Philadelphia.	120	5	53.0	+0.6	84	25	27	30	35	3.08	-0.39	1.47	9	14	9	7	NW	
1529 Centennial Avenue.	842	28	51.0	0	81	24	28	20	34	3.34	+0.49	0.76	0.1	15	4	14	2	W
Pittsburgh.	150	8	52.9	+1.6	89	25	26	20	36	3.80	+0.59	1.70	8	22	3	5	W	
Pottstown.	738	21	48.8	+1.0	84	25	21	21	41	3.32	+0.19	1.53	T	6	11	13	6	SW
Quakertown.										3.89	+0.49	1.61	10	11	13	6	SW	
Reading 2.	280	22	50.3	-0.6						3.89	+0.49	1.61	10	11	13	6	SW	
Berks.					85	25	23	20	47	2.64		0.82	11	15	7	7		
Reading.	672		49.4		86	25	23	20	50	2.22	-0.31	0.76	1.0	10	4	10	16	NW
Renova.	1,200	4	45.6	0	79	24	14	21	50	2.39	-0.31	0.76	1.0	10	4	10	16	NW
Saegertown.					85	25	20	20	39	3.41		1.39	7	13	7	10	S	
Lackawanna.	746		48.4		85	25	20	20	39	3.41		1.39	7	13	7	10	S	
Scranton.	465	7	50.4	+1.2	87	25	24	20	42	3.25	+0.02	0.76	1.0	12	5	19	6	SW
Seiingsgrove.	1,475		47.6		80	22	15	20	48	2.87	1.07	2.0	7	11	10	9	S	
Potter.					84	25	20	21	49	3.67	1.63		6	15	5	5	SW	
Shingle House.	145		49.8		84	25	20	21	49	3.67	1.63		6	15	5	5	SW	
Skippack e.	1,500	6	44.8	+0.9	78	25	17	21	47	3.43	-0.33	1.10	10	12	4	14	SW	
McKean.	2,250	39	47.0	+0.7	78	25	17	21	47	3.43	-0.33	1.10	10	12	4	14	SW	
Somersett.	339	5	50.2	-0.5	85	25	24	20	42	3.99	-0.40	0.81	T	10	8	10	12	NW
South Bethlehem.	680	6	48.1	+1.8	84	25	21	20	36	3.11	+0.67	1.69	22	6	2	W		
Northampton.	680	6	48.1	+1.8	84	25	21	20	36	3.11	+0.67	1.69	22	6	2	W		
Wyoming.	1,191	8	48.0	+0.4	83	25	24	20	35	3.78	+0.57	1.04	3.0	13	7	12	11	W
Centre.	1,740				83	25	24	20	35	3.78	+0.57	1.04	3.0	13	7	12	11	W
State College.					76	29	19	20	35	2.93		0.66	9	11	9	10	W	
Elk.					82	26	28	20	42				10	19	1	1	NW	
Delaware.	190	7	52.8	+2.3	82	26	28	20	42				5	20	9	1	W	
Swarthmore.	1,600				82	25	20	20	39	2.67	1.48		8	11	5	14	W	
Monroe.	754		48.0		83	25	21	20	40	2.30	1.14	T	15	12	8	10	SW	
Swiftwater.					81	25	25	20	40	4.63	+1.01	0.90	16	15	2	13	NE	
Towanda.	681	8	50.1	-1.1	81	25	25	20	40	4.63	+1.01	0.90	16	15	2	13	NE	
Bradford.					81	30	20	20	44	3.21	-0.21	0.88	16	15	2	13	NE	
Payette.					81	30	20	20	44	3.21	-0.21	0.88	16	15	2	13	NE	
Warren.	1,137	7	46.7		81	30	20	20	44	3.21	-0.21	0.88	16	15	2	13	NE	

## Climatological Data for Pennsylvania, April, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing direction of wind.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.		Number partly cloudy days.	Number cloudy days.
Wellsboro, .....	Tioga, .....	1,327	17	45.6	-1.2	82	25	20	21	40	2.55	-1.52	1.60	T	7	12	7	11	S
West Chester, .....	Chester, .....	465	41	51.0	+2.0	83	25	25	20	51	3.06	-0.87	0.58	.....	10	20	3	7	W
Westtown, .....	Chester, .....	350	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	Luzerne, .....	1,150	.....	46.2	.....	83	25	19	20	39	3.99	.....	1.40	T	9	8	20	2	NW
Wilkes-Barre, .....	Luzerne, .....	575	11	51.1	+2.6	87	25	22	20	41	3.31	+0.84	1.60	.....	8	15	2	12	S
Williamsport, .....	Lycoming, .....	530	6	49.6	+5.6	85	25	19	20	36	2.25	-1.07	1.19	T	5	13	13	4	W
York, .....	York, .....	385	8	50.4	0	85	25	25	20	40	3.42	+0.50	0.90	.....	9	10	14	6	W

\*Extremes of temperature from observed readings of dry thermometers.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 5 p. m. + 4. Mean of 8 a. m. + 3 p. m. + 2.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.

Maximum and Minimum Temperatures for Pennsylvania, April, 1897.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	55	25	65	35	65	35	51	36	64	39	50	40	46	38	46	37	55	35	43	32	51	25
Aqueduct, .....	60	40	58	39	61	39	51	36	65	36	56	48	53	37	49	40	51	46	51	38	57	31
Bloomington, .....	52	23	61	27	55	26	56	26	65	36	54	43	42	33	47	34	47	42	42	32	48	28
Brookville, .....	59	33	66	34	70	45	57	47	67	50	53	40	48	40	48	35	48	34	48	32	51	31
Cannonsburg, .....	57	31	67	30	63	32	47	31	68	41	58	42	49	35	50	38	51	42	48	36	57	31
Carlisle, .....	52	30	64	25	62	30	46	38	66	40	48	40	44	40	45	40	55	35	40	31	41	26
Cassandra, .....	51	29	61	23	62	39	53	36	64	38	54	42	52	34	53	34	50	29	52	31	50	28
Centre Hall, .....	54	15	60	23	63	30	48	23	68	39	64	39	50	43	48	32	56	40	48	35	55	27
Chambersburg, .....	58	30	67	30	63	35	54	24	72	41	66	43	59	38	48	35	59	44	55	36	60	35
Coatesville, .....	62	23	58	24	60	29	70	39	60	41	70	41	50	40	48	35	44	36	55	33	44	26
Confluence, .....	60	31	68	34	61	36	56	30	69	40	60	48	56	39	55	39	51	43	51	37	56	34
Coopersburg, .....	72	26	68	25	68	25	74	31	55	46	68	43	46	40	47	37	48	37	53	32	50	21
Derry Station, .....	55	27	64	25	79	31	55	29	68	36	63	43	47	37	52	37	48	40	50	32	50	21
Drifton, .....	57	19	64	22	64	26	53	27	73	42	67	39	47	37	55	38	46	34	40	25	52	27
Dunmore, .....	48	19	59	19	55	24	55	31	61	40	57	36	47	39	55	33	42	40	45	33	48	24
DuShore, .....	53	21	62	23	60	24	56	24	69	37	53	40	42	38	52	31	42	39	40	33	47	27
Dyberry, .....	54	30	64	30	64	38	54	29	64	40	64	46	55	36	58	38	51	44	49	39	53	35
Easton, .....	55	22	65	22	54	28	53	30	67	43	59	43	45	40	47	40	46	38	41	33	50	24
Emporium, .....	42	30	49	34	42	32	55	35	64	44	44	34	39	34	43	34	37	30	36	31	42	28
Erie, .....	57	24	65	27	67	28	56	44	67	45	47	41	41	36	46	35	43	33	42	27	40	24
Franklin, .....	50	32	64	36	62	30	48	34	64	36	56	36	60	24	56	34	56	32	50	34	62	36
Gettysburg, .....	50	22	64	32	62	34	42	40	60	42	46	38	46	36	48	36	46	34	40	30	36	24
Grampian, .....	62	34	68	25	73	40	63	44	68	43	63	40	58	43	47	37	53	37	49	24	53	27
Greensburg, .....	56	28	62	27	63	29	52	42	74	46	53	40	46	36	41	37	41	33	41	30	37	26
Greenville, .....	50	23	59	22	58	25	56	33	70	35	50	36	53	27	47	40	46	38	46	28	28	28
Hallstead, .....	59	32	69	33	61	36	54	20	72	42	64	50	56	41	51	45	49	38	56	35	60	35
Hamburg, .....	48	28	56	29	53	32	54	31	60	39	57	45	45	38	52	36	46	39	42	32	42	28
Hamilton, .....	54	35	61	35	60	43	33	33	68	41	55	46	49	41	50	42	53	41	48	33	55	24
Harrisburg, .....	55	23	67	32	67	26	56	36	68	41	55	46	49	41	50	42	53	41	48	33	55	24
Hollidaysburg, .....	60	25	66	23	66	27	62	34	68	40	58	42	50	34	49	39	57	41	47	35	55	25
Honesdale, .....																						
Huntingdon, .....																						





Unlontown, .....	56	32	60	31	68	42	60	43	68	48	48	43	47	42	49	37	55	37	45	32	48	29
Warren, .....	51	21	66	24	63	25	66	42	64	42	54	42	44	34	42	34	47	34	33	24	46	21
Wellboro, .....	54	23	60	23	64	26	55	30	63	34	54	36	50	32	52	36	33	34	42	30	50	24
West Chester, .....	53	32	63	34	57	40	53	32	67	41	62	48	56	40	53	40	58	45	52	36	54	35
Westtown, .....																						
White Haven, .....	51	28	50	26	60	30	51	27	69	37	66	42	58	40	54	38	49	37	41	34	48	29
Wilkes-Barre, .....	62	28	68	27	66	33	57	33	75	40	60	46	50	42	58	40	51	42	50	35	55	30
Williamsport, .....	54	29	65	29	61	29	51	38	60	41	54	43	51	40	54	42	51	41	45	37	52	29
York, .....	55	31	67	27	60	39	50	30	72	42	59	44	52	35	53	36	54	45	50	35	58	31

Maximum and Minimum Temperatures for Pennsylvania, April, 1897—Continued.

Stations.	12.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	
Altoona, .....	54	33	6	39	55	42	46	30	59	29	48	36	63	30	50	26	46	22	63	22	76	42
Aquebuct, .....	54	37	58	43	73	49	55	41	65	43	54	46	61	41	59	30	46	26	60	27	70	46
Bloomington, .....	57	29	53	33	61	42	54	33	59	32	51	36	62	30	58	24	44	12	59	17	63	33
Brookville, .....																						
Cannonsburg, .....	55	34	66	40	62	45	53	39	52	40	44	31	60	29	65	32	.....	.....	66	27	76	46
Carlisle, .....	57	35	57	36	69	46	51	43	63	32	53	38	65	36	66	34	50	24	63	27	71	43
Cassandra, .....	50	33	62	40	52	44	42	39	55	28	38	34	61	30	58	26	41	20	61	23	73	46
Centre Hall, .....	52	38	54	39	59	47	47	38	57	30	54	29	58	32	56	42	43	20	59	26	70	43
Chambersburg, .....	54	35	63	30	69	41	56	43	62	28	49	36	60	31	65	38	50	22	60	32	70	35
Coatesville, .....	59	38	60	31	73	47	56	47	67	32	57	41	64	39	71	36	50	34	61	24	68	32
Confluence, .....	53	36	55	40	69	50	58	42	46	42	59	37	52	40	63	26	56	24	55	21	67	26
Coopersburg, .....	60	36	59	34	68	46	54	45	65	37	57	41	59	38	67	39	47	24	61	26	66	38
Derry Station, .....	49	30	57	35	67	30	52	40	55	30	58	36	57	29	70	47	55	23	55	24	66	23
Drifton, .....	64	29	58	32	69	43	62	38	60	29	60	34	.....	.....	61	32	56	17	60	19	66	19
Dunmore, .....	66	33	57	36	63	43	46	28	61	28	51	34	60	35	61	18	41	15	61	16	70	37
Dushore, .....	50	29	58	27	62	47	49	33	57	46	53	38	53	34	59	30	59	31	38	13	68	36
Dyberry, .....	56	28	58	27	62	39	52	40	60	30	52	34	59	30	59	31	38	13	57	16	68	37
Easton, .....	55	34	59	34	68	46	66	43	60	34	53	42	57	37	67	36	50	22	55	25	65	36
Emporium, .....	56	30	63	42	66	44	45	35	55	30	46	36	61	30	57	29	41	23	63	22	77	43
Erie, .....	47	32	62	46	47	40	49	38	50	38	38	33	61	33	59	23	24	24	57	27	76	54
Franklin, .....	55	27	64	43	59	39	54	37	53	36	56	36	63	27	54	26	43	24	66	22	79	45
Gettysburg, .....	53	32	63	34	62	36	63	34	64	43	66	54	58	44	54	44	56	30	70	46	68	54
Grampian, .....	48	26	60	40	50	40	44	32	50	30	40	34	50	28	54	21	38	20	60	20	74	46
Greensboro, .....	57	36	72	42	67	41	62	40	60	34	53	26	64	28	59	28	47	26	72	23	81	27
Greenville, .....	51	24	73	43	55	41	54	37	54	41	43	35	60	29	53	27	42	25	62	22	76	50
Hallstead, .....	57	27	59	31	61	49	50	36	60	28	55	39	63	35	58	27	26	19	60	19	70	34
Hamburg, .....	60	39	58	42	69	52	52	47	64	35	54	42	62	40	67	41	47	25	64	28	69	34
Hamilton, .....	51	31	54	35	62	45	53	38	60	32	53	38	56	32	58	32	33	17	55	23	65	39
Harrisburg, .....	54	36	57	39	67	48	51	43	60	36	51	41	60	39	65	31	47	28	53	31	69	43
Holidaysburg, .....																						
Honedale, .....	57	34	65	40	59	44	47	37	63	47	59	37	67	29	61	28	51	23	66	21	78	42

Huntingdon, .....	56	48	33	66	40	60	48	50	42	62	38	52	30	65	31	62	34	49	25	64	23	75	42	
Indiana, .....				37	68	36	48	38	64	35	46	30	63	52						58	35	77	54	
Irwin, .....																								
Johnstown, .....	37	65	31	59	31	45	23	68	24	80	42	37	65	31	59	31	45	23	68	24	80	42		
Kennett Square, .....	56	38	58	30	71	46	61	47	65	33	56	41	61	39	70	41	50	24	61	25	68	33		
Lancaster, .....	53	32	56	40	70	47	53	34	63	40	53	47	60	42	68	34	45	26	60	38	64	42		
Lawrenceville, .....	51	25	54	39	57	48	58	35	60	28	53	35	62	30	57	35	48	19	59	30	73	42		
Lebanon, .....	55	31	56	36	68	45	51	46	62	32	56	39	60	39	66	42	47	24	59	25	69	36		
Le Roy, .....	50	38	56	36	56	40	46	30	59	29	45	35	63	30	50	22	35	15	61	21	63	42		
Lewisburg, .....	55	33	58	40	63	47	51	42	61	30	53	39	64	33	63	32	43	24	61	33	70	40		
Lock Haven, .....	60	32	62	39	63	50	53	41	63	31	60	33	68	33	67	43	51	24	67	25	78	40		
Lycippus, .....	50	38	54	40	68	47	51	37	52	38	57	34	42	29	60	41	55	22	49	29	68	47		
Mauch Chunk, .....	62	34	60	31	67	47	49	44	65	31	54	39	66	38	67	37	45	22	62	21	70	30		
Philadelphia (a), .....	55	40	61	39	70	48	64	48	63	43	56	44	59	41	69	34	46	27	58	26	67	42		
Philadelphia (b), .....	51	39	61	38	70	48	64	49	63	40	43	61	40	71	44	53	27	53	34	66	41	77	43	
Pittsburgh, .....	52	34	67	46	55	43	52	39	58	43	45	37	62	34	59	29	45	26	66	32	78	50		
Pottstown, .....	61	39	61	35	70	50	56	48	67	37	58	44	61	41	58	44	52	26	63	28	70	40		
Quakertown, .....	57	33	60	29	70	43	58	45	62	32	55	39	59	36	70	38	44	22	59	21	66	34		
Renova, .....	59	33	63	38	58	48	49	33	54	30	50	51	66	33	55	32	60	23	64	24	78	42		
Saegertown, .....	55	20	60	36	56	36	51	31	53	31	49	31	61	26	60	22	40	20	64	14	77	43		
Scranton, .....	52	34	57	35	58	44	53	40	62	31	56	36	60	36	58	38	40	20	59	21	69	33		
Selinsgrove, .....	59	31	70	40	76	44	67	41	57	29	54	35	64	36	45	40	64	24	64	27	77	42		
Shingle House, .....	53	22	65	35	60	34	63	33	58	36	56	26	64	26	50	24	40	15	66	20	80	42		
Skippack, .....	58	36	60	27	71	40	62	46																
Somers, .....	55	23	65	41	46	41	44	32	52	27	43	32	59	28	49	25	42	18	63	17	77	43		
Somerset, .....	54	32	58	36	60	40	53	36	50	32	50	38	60	28	50	27	53	18	62	20	76	40		
South Bethlehem, .....	56	39	61	37	62	40	59	38	58	36	56	41	59	38	60	36	49	24	52	30	62	36		
South Eaton, .....	55	35	57	35	63	49	51	39	60	30	54	40	67	37	62	30	40	21	57	21	63	38		
State College, .....	51	29	56	43	57	43	44	40	56	30	47	36	60	32	59	28	44	24	60	25	70	49		
St. Marys, .....	54	29	49	40																				
Swiftwater, .....	55	40	60	43	72	58	64	37	62	47	56	41	58	44	70	28	45	28	59	39	67	43		
Swiftwater, .....	52	32	54	29	64	44	50	39	57	31	51	38	57	35	62	30	38	20	55	20	73	41		
Towanda, .....	54	32	58	34	61	49	51	36	58	32	58	22	62	38	57	30	38	21	58	21	61	31		
Uniontown, .....	53	36	67	41	55	45	47	43	52	39	41	38	66	30	56	34	43	25	66	26	76	46		
Warren, .....	57	24	58	42	63	40	42	37	52	33	48	34	59	27	62	28	30	20	64	20	77	46		
Wellboro, .....	56	28	58	33	50	42	44	32	56	30	43	34	63	32	50	26	35	21	56	20	74	34		
West Chester, .....	53	38	56	33	70	47	62	47	62	37	54	42	58	39	69	42	45	25	53	30	66	40		
Westtown, .....																								
White Haven, .....	53	31	52	39	62	45	46	40	46	31	56	31	51	30	61	26	37	19	58	19	65	31		
Wilkes-Barre, .....	59	35	62	36	66	50	53	40	62	33	59	39	62	37	64	40	44	22	63	24	73	35		
Williamsport, .....	54	33	58	43	58	43	46	41	59	31	50	36	60	35	62	41	46	19	59	26	69	44		
York, .....	55	37	58	32	71	38	52	47	64	32	55	39	61	38	68	44	47	25	62	26	61	39		



Huntingdon, .....	81	40	34	49	86	47	74	47	57	38	75	39	78	45	74	48	68.5	36.8
Indiana, .....	58	51	61	49	63	46	66	51	58	32	69	41	79	56	73	59	61.0	41.4
Irwin, .....																		
Johnstown, .....	75	47	81	53	83	49	70	44	53	35	71	35	80	44	72	48	61.4	37.5
Kennett Square, .....	76	39	81	46	86	51	71	47	58	39	70	40	76	35	76	43	64.3	37.7
Lancaster, .....	70	48	32	56	85	47	70	36	56	35	68	38	71	44	72	54	61.0	38.7
Lawrenceville, .....	73	51	77	53	81	49	69	39	49	30	63	33	72	33	73	43	60.1	37.1
Lebanon, .....	75	40	84	47	86	52	74	48	57	35	73	41	73	37	74	45	62.0	37.8
Le Roy, .....	77	45	80	54	84	51	65	31	46	26	60	32	70	35	77	48	56.3	33.4
Lewisburg, .....	76	43	83	52	85	48	78	45	57	35	71	42	73	39	77	49	62.4	37.4
Lock Haven, .....	81	47	87	53	90	50	73	46	64	34	78	36	81	45	82	50	66.7	38.0
Lycippus, .....	75	53	76	63	79	64	64	47	68	32	59	35	72	52	80	60	59.7	40.3
Mauch Chunk, .....	78	37	86	54	87	50	71	48	55	35	70	40	89	34	77	41	63.6	36.5
Philadelphia (a), .....	74	46	81	53	85	56	68	49	56	42	68	44	72	47	73	53	63.6	42.7
Philadelphia (b), .....	74	45	80	52	84	57	70	51	56	42	61	43	73	44	77	51	63.3	42.6
Pittsburgh, .....	75	59	81	64	80	53	67	44	54	37	71	39	81	52	77	59	60.0	42.0
Pottstown, .....	78	42	84	52	89	55	72	48	58	42	71	43	75	43	76	48	64.4	41.4
Quakertown, .....	75	34	83	43	84	47	68	47	54	35	63	39	72	33	73	48	62.2	35.4
Renova, .....	79	45	84	45	85	49	71	45	55	34	80	33	75	37	79	52	62.7	36.2
Saegertown, .....	66	46	79	51	78	50	59	39	49	29	69	25	79	37	78	54	59.8	31.5
Scranton, .....	73	42	81	42	85	50	51	33	70	44	65	37	75	37	77	46	60.5	36.1
Selinsgrove, .....	79	41	86	47	87	49	56	45	49	32	72	36	75	42	78	48	64.2	36.7
Shingle House, .....	80	42	78	46	78	38	74	36	72	28	72	34	78	33	80	48	64.3	30.9
Skippack, .....	75	29	80	31	84	45	68	46	56	45	70	40	73	32	77	36	64.8	34.3
Smethport, .....	73	48	77	54	78	48	61	35	48	30	69	30	78	39	77	52	57.1	32.6
Somerset, .....	76	44	78	48	73	44	78	40	50	30	68	32	70	40	73	48	59.2	34.7
South Bethlehem, .....	69	42	83	53	85	54	61	45	56	38	58	39	75	40	82	41	60.4	40.0
South Eaton, .....	77	47	81	53	84	49	63	43	48	32	63	37	74	38	75	39	59.7	36.5
State College, .....	76	48	79	53	83	51	73	46	52	37	70	33	73	46	71	50	58.3	37.7
St. Marys, .....	46			56													55.6	34.9
Swarthmore, .....	73	49	79	55	82												62.7	42.9
Swiftwater, .....	71	40	78	45	82	54	65	44	48	32	57	38	72	33	71	49	58.0	35.1
Towanda, .....	78	52	89	54	83	57	69	40	50	32	66	35	73	33	77	43	59.8	36.1
Uniontown, .....	75	59	78	55	81	54	67	46	54	37	71	36	80	46	78	58	60.1	40.1
Warren, .....	74	51	78	54	75	51	60	44	45	32	71	31	72	41	81	57	58.2	35.2
Wellboro, .....	80	44	75	49	82	50	68	42	50	25	67	35	70	40	74	42	58.3	32.8
West Chester, .....	74	43	78	50	83	56	69	49	55	39	65	41	70	42	71	49	61.6	40.4
Westtown, .....																		
White Haven, .....	76	40	80	44	83	47	77	39	49	42	62	38	73	34	72	38	56.2	34.1
Wilkes-Barre, .....	81	44	84	49	87	81	81	45	54	33	69	39	79	38	75	44	64.5	37.7
Williamport, .....	76	49	82	55	85	53	75	47	54	35	70	33	74	45	74	52	60.3	38.8
York, .....	77	45	84	47	86	52	73	48	58	39	70	40	73	39	75	43	62.5	38.2

## Daily Precipitation for Pennsylvania, April, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	12.	14.	15.	16.
<b>Delaware Basin.</b>																
Bethlehem, .....					.35	.20			1.59			.06			.92	
Blooming Grove, .....				.32	.09	.10	.03		1.70						.94	
Browers' Lock, .....					.64	.16		.14	1.55						.45	
Coatesville, .....				.24	.56			.44	1.29			.06			.24	
Coopersburg, .....				.06	.43	.18		.11	1.40		.06	†			.90	
Doylertown, .....				†	.59	.13		.17	2.00			.04			.64	
Dyberry, .....					.28	.08	†	.06	1.70	.02				†	1.00	
Easton, .....				•	.07	.16			.31			†		•	.50	
Forks of Neeshaminy, .....				.05	.08	.13		.09	1.60			.06			.52	
Frederick, .....				.10	.41	.16	.02	.08	1.46						.29	
Hamburg, .....				.40	.02		•	2.10		.08					.56	
Hamilton, .....					.10	.10	.17	.09	1.39	.31					.39	.08
Honesdale, .....				.19	.24		.20		•	1.70					1.50	
Kennett Square, .....				.14	.84	.04	†	.23	.98			.12		.15	.25	
Lansdale, .....					.77	.12		.35	1.15						.40	
Mauch Chunk, .....					.17	.02			1.57			.11			.87	
Ottisville, .....				.49	.16			.03	1.63			.06			.25	
Philadelphia (a), .....				.06	.74	.07		.24	1.32	†		†		†	.39	
Philadelphia (b), .....				.06	.81	.05	†	.32	1.44	†		†		†	.57	
Point Pleasant, .....				.08	.15			.24	1.72			.03			.24	
Pottstown, .....				.20	.55			.30	1.70						.43	
Quakertown, .....				†	.66	†	†	†	1.55			.06		†	.43	
Reading, .....				.16	.60	.03		.18	1.64			.06			.82	
Seisholtzville, .....				.01	.53	.02		.18	1.23						.96	
Shawmont, .....				.05	.65	.12		.24	.99			.57			.57	
Skippack e., .....				†	.56	.77	†	.20	1.63	†		†			.20	†
Smith's Corners, .....				.08	.37	.22		.10	1.70						.40	
Swiftwater, .....				†	†			†	1.36					†	.87	†
West Chester, .....				.21	.78	.03	.03	.49	.88			.03			.24	
White Haven, .....				†	.05	.09	.06	.14	1.40						1.03	

## Susquehanna Basin.

Altoona, .....	.43	.32	.13	.13	.62	.82	.07	.20	.01	.30	.70	.01
Aqueduct, .....	.15	.33		†	.25	.88		.21			.40	.23
Carlisle, .....		.08	.60	.10	.42	.77		.28		.09	.38	.15
Centre Hall, .....	.23	.38	.06		1.53		.48			.75	.20	
Drifton b, .....						1.00	‡	.30			1.50	
Dunmore, .....	•	.37	.13	.09	•	1.25					.97	
Dushore, .....	†	.19	.06	.15	.05	1.22					.81	
Emporium, .....		.20	.41	.17	.10	1.10		.14	.06	.10	.46	.06
Gettysburg, .....	.90				‡	‡					1.45	
Girardville, .....					.25	.83		.30	.35	.20	.92	.15
Gramplan, .....	.30	.23	.32	.13	.54	.66	.10	.26	.11	.23	.70	.08
Hallstead, .....			•	•	.22	1.29	.02				.62	
Harrisburg, .....	.23	.25	.06	†	.30	.83		.22		†	.45	†
Holidaysburg d, .....	.33	‡	‡	‡	‡	1.22		.20		.12	.76	
Huntingdon, .....	.19	.40	.18	.12	.24	1.27		.30			.84	
Lancaster, .....												
Lawrenceville, .....		.42	.10	†		1.05						.64
Lebanon, .....	.16	.30	.04	†	.26	1.37	†	.15	†	.01	.65	
Le Roy, .....		.03	.21	.10	.03	1.20	.02				.76	
Lewislburg, .....	.06	.22	.06	.02	.33	1.35		.31		.02	.69	.04
Lock Haven, .....	.20	.10	.15		•	1.46		.34	•		.95	
Renova, .....	.15	.18	.05	.02	.07	.82		.08			.82	.03
Scranton, .....		.20		.25	.05	1.39					.98	
Selinsgrove, .....	.16	.20	.36		.23	.76		.25		.10	.73	.03
South Eaton, .....		.06	.22	.11	.07	1.54					.80	
State College, .....	.18	.21	.12	.11	.41	1.04	.08	.40		.07	.85	.05
Towanda, .....	†	.13	.12	.07	.02	1.14					.68	
Wallaboro, .....	†	.76	†	.04	.05	1.00	†			†	.40	
Wilkes-Barre, .....	.11	.10		.06	•	1.50					1.10	
Williamsport, .....	•	.12	.06		.03	1.19		.15	.02		.61	
York, .....	.30	.46		†	.38	.90		.29		.14	.42	

## Ohio Basin.

Beaver Dam, .....		.28	.08	.09	.15	1.40	.14	.02		.52	.34	†
Brookville, .....		.06	.08	.03	.04	1.15		.06		.11	.13	
Cannonsburg, .....	†				.30	1.06				.44	.36	
Cassandra, .....		.15	.17	.20	.50	.63		.01	.25	.04	.92	.02
Confluence, .....		.53	.07	.09	.04	1.06	.16		.19	.13	.68	.01
Davis Island Dam, .....		.30	.14	.04	.15	1.20	.14	†	.17	.24	.40	.03
Derry Station a, .....		.37	.33	.10	.28	.80	.03		.12	.14	.98	.04
Du Bois, .....		.04	.07	.10	.20	1.00	.30	.01	.26	.44	.53	
Elwood Junction, .....		.80	.01	.04	.18	1.32	.32		.12	.57	.22	†



Daily Precipitation for Pennsylvania, April, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Franklin, .....				.20		.20	.12		1.03	.16		.20	.55	.36	.49	†
Freeport, .....					.35	.23	.20	.25	1.40	.03		.25		.12	1.13	†
Greensboro, .....				.60	.22	.05	.05	.50	.56		†					
Greenville, .....				.26	.12	.15	.08	.10	1.13	.03	.16		.13	.10		.04
Indiana I., .....	†	†	†	†	†	†	†	†	†	.02	.01	.14		.31	.29	.19
Irwin, .....			.33		.09	.08	.09	1.11	.09	†	.15		.16	.66	.01	.04
Johnstown, .....					.54	.16	.07	.17	.94	.20		.07		.18	.52	.56
Lock No. 4, .....				†	.39	.13	.04	.03	1.15	.06		.16		.22	.67	.02
Lycippus, .....				.44	.11	.07	.15	.80			.20		.21	.98	.07	.02
Oil City, .....					.24	.21	.11	.14	.76	.32		.06		.46	.07	.01
Parkers' Landing, .....					.22	.07	.15	.15	1.24	.24		.20		.30	.25	†
Pittsburgh, .....					.22	.05	.04	.13	.32	.76	.01	.11	.06	.03	.36	.26
Ridgway, .....					.25	.33	.06	.07	.99	.18				.36	.42	.02
Saegertown, .....				†	.23	.23	.08	†	.76	.05			†	.32		
Shingle House, .....					.12	.28	.06		1.00					.03	†	†
Smethport, .....					.60	.20	.10		1.10					.40	.30	
Somersaet, .....				.79		.42	.15	.81	.15	.21	†			.23	.81	
St. Marys, .....				.12	.31	.18	.07		.66				.24			.71
Uniontown, .....				.33	.48	.18	.31	.62	.24		.18		.07	.55	.90	.02
Warren, .....				.02	.44	.10	.04	.01	.83				.03	.57	†	.03
West Newton, .....					.39	.14	†	.14	1.06	.15		.19		.13	.72	.08
Potomac Basin.																
Chambersburg, .....				.45	.38			.45	.60			.15			.31	.40
Lake Basin.																
Erie, .....				†	.03	.20	.06		.57	†			.02	.30		.06

\*Precipitation included in that of following day.

†Trace, when precipitation is less than 0.01 inch.

‡Report missing.

## Daily Precipitation for Pennsylvania, April, 1897—Continued.

Stations.	Day of Month.																Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.		
Delaware Basin.																	
Bethlehem, .....	.26	..	..	..	..	..	..	..	..	.04	..	..	..	..	..	3.41	
Blooming Grove, .....	.40	..	..	..	..	..	..	..	.35	.08	†	..	..	..	..	4.01	
Browers' Lock, .....	.27	..	..	..	..	..	..	..	..	.09	.08	..	..	..	..	3.38	
Coatesville, .....	.34	..	..	..	..	..	..	..	..	.12	..	..	..	..	..	3.39	
Coopersburg, .....	.33	..	..	..	..	..	..	..	..	.14	..	..	..	..	..	3.69	
Doylestown, .....	†	..	..	..	..	..	..	..	..	.06	.13	..	..	..	..	3.80	
Dyberry, .....	.40	..	.02	..	..	..	..	..	.07	.10	..	..	..	..	..	3.72	
Easton, .....	.03	..	..	..	..	..	..	..	..	.13	..	..	..	..	..	1.20	
Forks of Neshaminy, .....	.25	..	..	..	..	..	..	..	..	.10	.06	..	..	..	..	2.93	
Frederick, .....	.32	..	..	..	..	..	..	..	..	.23	..	..	..	..	..	3.06	
Hamburg, .....	.39	..	..	..	..	..	..	..	.11	.10	..	..	..	..	..	3.76	
Hamilton, .....	.30	..	..	†	..	..	..	..	..	.20	.20	..	..	..	..	3.78	
Honesdale, .....	..	..	..	..	..	..	..	..	.13	..	..	..	..	..	..	3.96	
Kennett Square, .....	.32	..	..	..	..	..	..	..	..	.06	.01	..	..	..	..	3.19	
Landale, .....	.46	..	..	..	..	..	..	..	.11	..	..	..	..	..	..	3.36	
Mauch Chunk, .....	.29	..	..	..	..	..	..	..	.10	.16	..	..	..	..	..	3.29	
Ottsville, .....	.42	..	..	..	..	..	..	..	..	.13	.07	..	..	..	..	3.28	
Philadelphia (a), .....	.17	..	..	..	..	..	..	..	..	†	.06	..	..	..	..	3.03	
Philadelphia (b), .....	.21	..	..	..	..	..	..	..	..	.02	.05	..	..	..	..	3.53	
Point Pleasant, .....	.21	..	..	..	..	..	..	..	..	.14	..	..	..	..	..	2.91	
Pottstown, .....	.35	..	..	..	..	..	..	..	.15	.12	..	..	..	..	..	3.80	
Quakertown, .....	.34	..	..	..	..	..	..	..	..	.28	..	..	..	..	..	3.32	
Reading, .....	.33	..	..	..	..	..	..	..	..	.17	.01	..	..	..	..	3.89	
Selsholtzville, .....	.30	..	..	..	..	..	..	..	..	.25	..	..	..	..	..	3.53	
Shawmont, .....	.16	..	..	..	..	..	..	..	..	.02	.04	..	..	..	..	2.84	
Skippack e, .....	†	†	†	..	..	..	..	..	..	†	.21	..	..	..	..	3.67	
Smith's Corners, .....	.27	..	..	..	..	..	..	..	..	.16	.02	..	..	..	..	3.30	
Swiftwater, .....	.16	..	..	..	..	..	..	..	.10	.16	..	..	..	..	..	2.67	
West Chester, .....	.25	..	..	..	..	..	..	..	..	.12	..	..	..	..	..	3.06	
White Haven, .....	.42	..	..	†	..	..	..	..	..	.77	.04	..	..	..	..	3.99	



Ohio Basin.									
Beaver Dam, .....								.83	.06
Brookville, .....								.02	.07
Cannonsburg, .....								.06	.07
Cassandra, .....								.17	
Confidence, .....								.15	†
Davis Island Dam, .....	.01							.12	.25
Derry Station a, .....								.39	.02
Du Bois, .....	.01							.89	.24
Elwood Junction, .....								†	
Franklin, .....								.45	
Freeport, .....								.56	.06
Greensboro, .....	.02	.05						.12	
Greenville, .....								.10	.38
Indiana 1, .....								.59	.04
Irwin, .....	.03							.14	.12
Johnstown, .....								.46	.30
Lock No. 4, .....	.02							.11	.40
Lycippus, .....								.37	.09
Oil City, .....								.19	.27
Parkers' Landing, .....								1.06	.06
Pittsburgh, .....								.50	
Ridgway, .....								.43	.48
Saegerstown, .....								.70	.07
Shingle House, .....	.12							.12	
Snethport, .....								.26	.12
Somerset, .....								.07	.21
St. Marys, .....								.30	.25
Uniontown, .....								†	.17
Warren, .....								.68	.06
West Newton, .....	.03	.04						.46	.13
								.50	.26
								.41	.15
Potomac Basin.									
Chambersburg, .....	.05								
Lake Basin.									
Erie, .....	.08							.10	.09
									.03

†Precipitation included in that of following day.  
 †Trace, when precipitation is less than 0.01 inch.  
 †Report missing.

## MAY, 1897—CLIMATOLOGY OF THE MONTH.

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Atmospheric Pressure.

The mean pressure for the month, 29.99 inches, is .01 below the normal. At the United States Weather Bureau stations the highest observed was 30.43 inches, at Harrisburg, on the 8th, and the lowest, 29.55 inches, at Harrisburg, on the 6th.

## Temperature.

The means of the daily maximum and minimum temperatures, 69.2 degrees and 46.2 degrees, respectively, give a monthly mean of 57.7 degrees, which is 1.1 degrees below the normal, and 7.7 degrees below the corresponding month of 1896.

The average daily range was 23.0 degrees.

The highest monthly mean was 63.0 degrees, at Philadelphia, Centennial Avenue, Hamburg and Pottstown.

The lowest monthly mean was 52.6 degrees, at Somerset.

The highest temperature recorded during the month was 88 degrees, on the 9th at Lock Haven.

The lowest temperature was 25 degrees, on the 8th, at Dushore and Shingle House.

The greatest local monthly range was 57 degrees, at Shingle House.

The greatest daily range was 54 degrees, at Saegerstown.

The least local monthly range was 36 degrees, at Philadelphia. Weather Bureau.

## Precipitation.

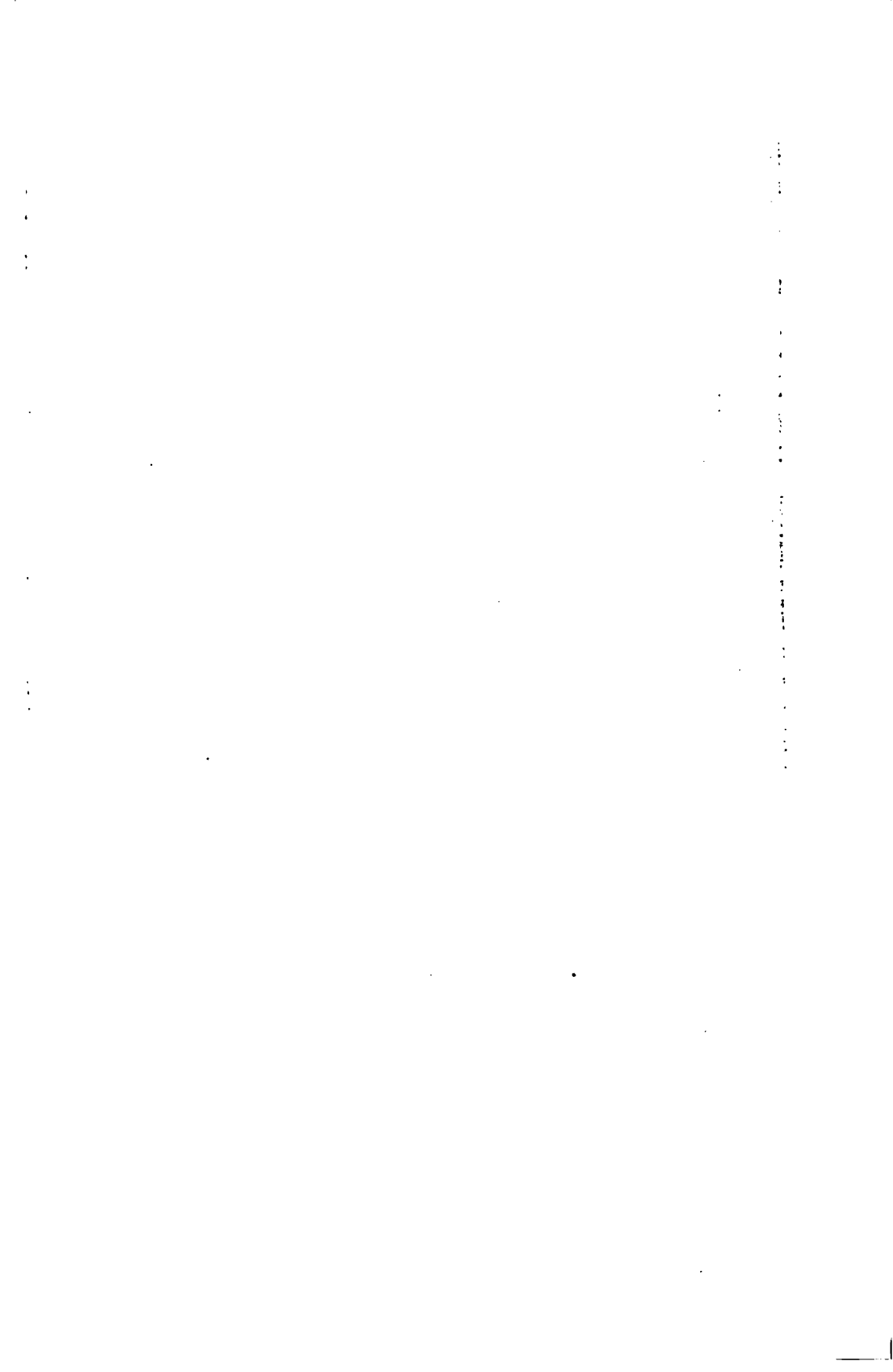
The average precipitation for the month, 5.24 inches, is 0.25 inches more than the normal.

The largest totals of rainfall, in inches, were: Smiths Corners, 10.05; Point Pleasant, 9.98; Reading, 9.70; Skippack, 9.25; Frederick, 8.85; Coopersburg, 8.74. The lowest were: Brookville, 1.71; Canonsburg, 1.79; Ellwood Junction, 2.61; Lock No. 4, 2.63; Pittsburgh, 2.70; Irwin, 2.79.

## Wind and Weather.

The prevailing wind was from the west.

Average number of rainy days, 12; clear, 11; partly cloudy, 10; cloudy, 10.



TOTAL PRECIPITATION

4'

4

2'

2'

SCALE OF



0 to 2



2 to 4





100

**Miscellaneous Phenomena.**

Thunderstorms.—2, 3, 9, 10, 11, 12, 13, 14, 16, 20, 21, 22, 23, 24, 25, 30, 31.

Hail.—Johnstown, Cassandra, 16th; Skippack, Pottstown, York, 21st; Cannonsburg, 24th.

Frost.—3, 4, 7, 8, 9, 15, 16, 17, 18, 19, 21, 22, 24, 26, 27, 28, 30.

Snow.—Greensburg, trace; Canonsburg, 0.5; Uniontown, 2.0, on 2d.

Solar Halo.—Le Roy, 7th; Philadelphia, Centennial Avenue, 11th.

Lunar Halo.—Harrisburg, 11th; Carlisle, 7th, 9th; Cassandra, 10th.

Climatological Data for Pennsylvania, May, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing direction of wind.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted.)	Number rainy days.	Number partly cloudy days.	Number clear days.		
Altoona, .....	Blair, .....	1,131	10	57.6	-2.4	84	9	34	3	44	3.08	-1.91	1.42	.....	11	.....	.....	.....	.....
Aqueduct, .....	Perry, .....	367	9	62.4	-0.5	83	20	35	17	45	5.93	-0.37	1.92	.....	12	10	3	15	NW
Blooming Grove, .....	Pike, .....	.....	13	55.3	-2.1	81	9	31	8	41	6.87	+2.75	3.32	.....	9	3	12	16	S
Brookville, .....	Jefferson, .....	1,173	13	.....	.....	.....	.....	.....	.....	.....	1.71	-2.71	0.64	.....	13	19	0	12	W
Cannonsburg b, .....	Washington, .....	938	25	58.0	-1.4	82	23	35	2	33	1.79	-1.43	0.74	0.5	10	18	9	4	W
Carlisle c, .....	Cumberland, .....	489	50	60.3	-0.3	82	20	38	8	36	6.54	+2.79	2.20	.....	11	19	5	7	W
Cassandra, .....	Cambria, .....	2,106	.....	54.4	.....	78	23	33	3	35	4.18	.....	2.26	.....	15	6	15	10	NW
Centre Hall, .....	Centre, .....	1,190	.....	57.9	.....	79	9	35	8	36	5.79	.....	2.45	.....	9	10	11	10	W
Chambersburg, .....	Franklin, .....	1,000	35	57.6	-3.3	81	20	34	27	38	5.03	-0.50	1.87	.....	13	8	13	10	W
Coatesville, .....	Chester, .....	380	10	61.5	+1.5	84	10	37	8	36	7.28	+1.67	1.47	.....	14	15	11	5	S
Confluence, .....	Somerset, .....	1,324	23	57.6	.....	83	10	33	26	42	3.91	-0.12	1.04	.....	15	8	4	19	W
Coopersburg, .....	Lehigh, .....	520	8	59.3	+0.2	78	10	33	8	27	8.74	+2.31	3.53	.....	14	17	6	8	SE
Derry Station b, .....	Westmoreland, .....	1,172	.....	57.4	.....	84	9	31	2	44	4.03	.....	1.16	.....	13	19	14	7	W
Drifton f, .....	Luzerne, .....	1,633	.....	55.6	.....	79	19	34	22	44	4.86	.....	1.0	.....	11	16	0	9	SE
Dunmore, .....	Lackawanna, .....	1,117	.....	57.0	.....	82	20	27	7	39	5.15	.....	2.17	.....	6	14	13	4	SW
Dushore, .....	Sullivan, .....	1,590	.....	54.9	.....	80	20	25	8	42	4.87	.....	1.14	.....	12	12	10	9	N
Dyberry, .....	Wayne, .....	1,100	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Easton, .....	Northampton, .....	325	14	61.2	+1.2	80	10	39	8	32	5.75	+1.24	.....	.....	14	12	12	7	.....
Edinboro* 1, .....	Erie, .....	1,220	9	53.6	-3.6	75	23	36	22	.....	.....	.....	.....	.....	19	6	6	.....	.....
Emporium, .....	Cameron, .....	1,050	10	56.8	-4.2	83	9	33	8	46	3.42	-2.61	0.33	.....	14	6	20	5	W
Erie, .....	Bucks, .....	1,400	24	53.7	-3.3	79	9	40	22	25	3.04	-0.72	0.63	.....	13	12	8	11	W
Forks of Neshaminy 1, .....	Bucks, .....	304	9	64.3	+4.4	.....	.....	.....	.....	.....	6.84	+0.41	2.25	.....	12	15	2	14	NW
Franklin, .....	Venango, .....	955	22	56.1	+0.5	82	9	33	22	42	3.66	+0.68	1.06	.....	7	11	14	6	W
Gettysburg, .....	Adams, .....	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grampian, .....	Clearfield, .....	1,450	45	55.4	-1.4	80	9	32	3	40	4.55	+0.12	1.38	.....	11	2	19	10	W
Greensboro, .....	Greene, .....	768	9	58.0	.....	87	23	32	3	42	4.93	+0.08	1.55	T	14	4	15	12	SW

Greenville, .....	1,000	6	54.3	-2.4	86	9	31	3	39	4.1 <sup>1</sup>	+1.21	1.14	.....	13	12	15	4	SW
Hallstead d, .....	.....	.....	56.2	.....	80	9	29	8	45	4.87	.....	1.64	.....	11	5	12	10	SW
Berks, .....	.....	.....	.....	+2.5	82	10	42	8	33	8.15	-7.72	2.50	.....	3	6	17	8	NW
Wayne, .....	1,600	9	55.8	-1.3	77	9	39	8	32	5.94	+1.34	2.16	.....	14	8	15	8	NW
Dauphin, .....	381	9	60.6	-0.4	79	20	42	8	27	5.80	+0.47	1.82	.....	12	9	13	15	NW
Harrisburg, .....	947	10	58.3	-1.6	87	9	31	27	50	8.53	-3.23	1.40	.....	9	13	12	6	W
Honesdale, .....	1,000	13	.....	.....	.....	.....	.....	.....	.....	5.92	+1.45	2.00	.....	11	17	5	9	NW
Huntingdon, .....	860	10	58.2	-1.3	87	28	32	27	40	4.69	-1.58	3.00	.....	8	6	20	5	W
Indiana, .....	1,350	4	56.8	-4.4	79	19	32	2	35	2.98	-2.42	0.43	.....	16	9	9	13	SW
Westmoreland, .....	884	.....	.....	.....	.....	.....	.....	.....	.....	2.79	.....	1.07	.....	12	8	7	16	.....
Johnstown, .....	1,184	10	57.0	-2.5	83	20	34	3	42	3.71	-1.11	0.76	.....	17	13	9	9	SW
Cambria, .....	275	8	60.7	+1.0	80	10	39	8	32	7.95	+2.46	2.40	.....	14	18	8	5	S
Kennett Square, .....	413	10	56.8	.....	81	8	36	30	32	.....	.....	.....	.....	12	6	2	W	.....
Lancaster, .....	1,068	.....	57.6	.....	82	9	28	8	39	4.35	.....	0.82	.....	13	10	4	17	SW
Lawrenceville, .....	453	10	58.9	+0.2	79	20	35	8	33	6.52	+0.42	1.69	.....	12	14	11	6	SW
Lebanon, .....	1,400	9	55.0	-1.3	78	20	33	8	30	4.84	-0.46	0.77	.....	14	2	14	15	SW
Le Roy, .....	460	28	58.4	-0.3	80	20	32	8	49	5.00	-0.30	1.19	.....	10	12	7	12	S
Lewisburg, .....	560	10	60.7	+0.4	83	9	33	8	49	5.00	+0.70	1.04	.....	11	6	14	11	W
Lock Haven, .....	1,420	5	57.5	-3.6	81	24	34	2	34	4.08	-0.47	1.44	.....	13	.....	.....	.....	.....
Lycippus, .....	550	8	59.5	+0.3	84	10	35	8	41	7.64	+1.34	3.43	.....	19	18	7	6	W
Mauch Chunk, .....	117	26	62.5	+0.5	82	10	46	8	24	4.33	+1.11	1.29	.....	12	9	12	10	SW
Philadelphia, .....	120	7	63.0	+0.5	82	10	44	8	27	4.96	+0.04	1.56	.....	12	12	10	9	SW
129 Centennial Avenue, .....	842	27	58.0	-1.0	81	23	37	2	31	2.70	-0.71	0.94	.....	15	8	13	10	W
Pittsburgh, .....	150	10	63.0	+0.8	83	9	43	7	28	7.27	+2.55	2.50	.....	11	19	4	8	W
Pottstown, .....	536	23	59.4	+0.2	82	10	36	8	35	7.77	+3.35	2.48	.....	12	9	10	12	SW
Quakertown, .....	280	24	60.4	-0.9	.....	.....	.....	.....	.....	9.70	+5.50	2.14	.....	14	.....	.....	.....	.....
Reading 2, .....	672	.....	58.9	.....	87	9	35	8	47	4.41	.....	1.27	.....	12	10	15	6	.....
Renova, .....	1,200	6	53.7	-2.2	82	9	26	23	54	3.95	-2.64	1.39	.....	12	3	14	14	NW
Saegertown, .....	746	.....	58.0	.....	81	9	35	8	43	4.82	.....	1.97	.....	10	14	6	11	W
Scranton, .....	455	9	58.6	-2.1	80	11	32	8	36	4.74	-1.04	1.87	.....	10	8	14	9	SW
Seelingsgrove, .....	1,475	.....	53.4	.....	82	9	25	8	48	3.20	.....	0.83	.....	12	6	15	10	NW
Shingle House, .....	145	.....	58.6	.....	81	10	32	9	44	9.25	.....	2.00	.....	12	13	7	11	W
Skippack, .....	1,500	8	53.2	-2.0	80	9	28	8	47	2.90	-3.99	0.60	.....	10	4	15	12	SW
Smethport, .....	2,230	41	52.5	-4.2	79	9	30	2	40	4.65	-0.84	1.05	.....	11	6	14	11	SW
Somerset, .....	339	7	59.5	-2.5	80	21	39	2	29	6.05	+2.04	2.00	.....	10	10	14	7	W
South Bethlehem, .....	680	8	56.8	-0.4	78	9	33	8	41	5.29	+0.32	1.71	.....	10	14	8	9	SW
South Eaton, .....	1,191	10	57.6	-0.8	81	9	36	8	34	4.13	-1.35	1.22	.....	13	11	10	15	W
State College, .....	1,740	.....	53.7	.....	80	9	31	8	41	3.44	.....	1.23	.....	13	7	9	15	W
St. Marys, .....	190	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Swarthmore, .....	1,600	.....	55.5	.....	78	10	24	8	34	6.51	.....	3.00	.....	7	20	6	5	W
Swiftwater, .....	754	.....	56.7	.....	81	9	31	8	46	3.73	.....	0.94	.....	11	9	8	13	SW
Towanda, .....	681	10	56.6	-4.9	80	20	31	2	33	4.52	-0.99	0.99	.....	13	15	5	11	W
Uniontown, .....	1,137	9	55.5	.....	81	9	22	8	43	4.20	-1.65	1.42	.....	11	18	3	10	NE
Warren, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Climatological Data for Pennsylvania, May, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing direction of wind.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.		Number partly cloudy days.	Number cloudy days.
Wellboro, .....	Tioga, .....	1,327	19	53.7	-3.4	78	9	30	8	42	5.53	-0.18	1.76	—	10	12	2	17	N
West Chester, .....	Chester, .....	455	43	60.5	+0.4	80	10	42	8	26	7.47	+2.92	2.16	.....	13	13	6	7	S
Westtown, .....	Chester, .....	350	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	Luzerne, .....	1,150	.....	54.8	.....	79	9	35	8	43	6.49	.....	2.16	.....	10	6	19	6	N
Wilkes-Barre, .....	Luzerne, .....	575	13	59.6	-0.6	84	9	33	8	44	5.81	+0.93	1.95	.....	8	19	2	10	S
Williamsport, .....	Lycoming, .....	530	8	59.0	-0.1	80	13	36	8	36	2.85	+1.11	0.75	.....	9	12	13	6	W
York, .....	York, .....	295	10	60.1	-0.3	80	10	37	8	34	6.61	+1.92	1.92	.....	13	11	13	7	NW

\*Extremes of temperature from observed readings of dry thermometers.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4. 2 Mean of 8 a. m. + 8 p. m. + 2.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record: for instance, "n" denotes 14 days missing.

## Maximum and Minimum Temperatures for Pennsylvania, May, 1897.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	60	55	61	41	52	34	52	43	67	48	76	46	75	51	69	39	84	40	69	54	77	44
Aqueduct, .....	72	61	67	60	63	53	59	55	71	50	80	54	69	54	63	48	78	51	77	55	72	40
Bloomington, .....	64	49	54	45	55	45	55	42	66	48	75	46	69	43	60	31	81	40	78	53	74	44
Brookville, .....	70	43	45	35	55	36	53	43	67	48	77	47	78	50	.....	.....	.....	.....	67	45	78	49
Canonsburg, .....	71	56	60	51	51	42	53*	43	66	47	81	53	72	50	69	38	79	43	79	57	79	50
Carlisle, .....	67	56	56	39	48	33	47	42	63	46	71	39	69	54	63	40	76	41	66	54	73	43
Centre Hall, .....	68	56	59	45	56	38	50	41	63	44	74	49	71	50	71	35	79	43	75	54	75	46
Chambersburg, .....	68	53	62	45	52	38	52	38	66	44	75	40	71	48	68	35	76	38	75	52	75	43
Coatesville, .....	71	55	72	57	58	39	60	42	68	42	80	55	73	47	72	37	77	42	84	56	80	49
Confluence, .....	82	52	71	40	65	35	55	38	52	42	62	35	72	41	75	37	70	42	83	51	75	49
Coppersburg, .....	65	52	60	51	56	44	56	45	68	46	76	40	69	50	65	33	72	45	78	53	75	50
Derry Station, .....	.....	70	31	47	33	54	39	51	44	76	41	78	50	74	41	84	43	82	58	71	45	42
Drifton, .....	66	54	.....	.....	56	53	48	40	61	38	70	48	68	46	67	35	.....	.....	78	36	76	42
Dunmore, .....	62	50	53	42	54	43	58	43	74	41	74	42	66	27	71	44	81	46	78	41	79	45
Dushore, .....	69	54	59	51	60	36	53	46	68	37	68	38	60	41	61	25	79	37	76	47	73	36
Dyberry, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Easton, .....	70	54	59	45	61	45	60	54	70	47	75	54	71	46	67	39	74	43	80	57	80	43
Emporium, .....	72	58	62	44	60	40	53	43	68	46	75	42	68	49	70	33	83	37	68	53	77	43
Erie, .....	66	41	43	40	49	41	50	41	58	42	64	42	52	42	60	44	70	54	64	52	73	54
Franklin, .....	71	53	53	39	55	34	50	38	68	46	75	45	67	45	75	36	82	40	69	49	79	44
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greensburg, .....	63	54	54	36	53	32	48	44	60	44	76	46	70	52	63	38	80	40	64	56	78	46
Greenville, .....	72	42	53	43	52	33	53	35	66	48	83	44	78	48	77	40	84	42	72	55	69	52
Harrisburg, .....	74	45	56	41	57	31	50	41	66	47	74	46	66	46	71	35	80	41	69	57	75	45
Hatfield, .....	67	55	62	53	64	46	57	45	67	43	68	41	59	43	68	29	80	35	75	52	78	42
Harrisburg, .....	68	53	62	57	60	46	54	45	70	48	78	53	71	53	70	43	80	47	82	54	82	49
Hamilton, .....	65	50	52	48	62	45	50	44	62	44	66	49	60	48	59	39	77	45	76	57	73	48
Harrisburg, .....	70	57	64	51	52	46	54	45	67	49	78	57	69	52	65	43	75	48	77	60	76	52
Holidaysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Honesdale, .....	69	55	63	40	53	33	52	42	70	50	78	62	77	51	72	34	87	37	75	53	81	41



Swiftwater, .....	52	50	54	49	58	46	54	43	67	43	76	51	61	44	62	34	73	40	73	52	73	45
Towanda, .....	69	56	60	52	61	43	53	44	66	43	69	46	62	47	63	31	81	35	76	53	76	41
Uniontown, .....	64	47	52	31	49	34	53	40	67	47	73	40	72	48	72	47	71	47	73	57	73	49
Warren, .....	79	51	60	45	59	37	55	49	67	46	74	45	66	45	75	32	81	38	78	55	78	42
Wellsboro, .....	63	50	60	46	64	42	58	42	64	40	70	42	60	42	63	30	78	36	74	50	74	35
West Chester, .....	70	57	69	57	57	45	57	43	65	47	76	55	69	53	64	42	70	46	74	60	74	53
Westtown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	62	42	59	51	58	41	49	43	65	43	62	47	66	38	63	35	79	36	76	37	76	39
Wilkes-Barre, .....	72	53	62	52	64	42	55	44	71	45	76	47	70	48	69	33	84	40	81	57	81	46
Williamsport, .....	75	60	60	55	59	43	53	44	68	45	75	48	64	52	67	36	77	41	76	57	76	45
York, .....	71	57	64	51	51	42	53	40	67	47	77	49	70	58	66	37	77	43	77	57	77	50



Maximum and Minimum Temperatures for Pennsylvania, May, 1897—Continued.

Stations.	12.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	75	57	70	55	69	49	63	46	66	42	70	37	75	42	82	51	81	50	74	49	73	37
Aqueduct, .....	80	64	64	57	78	63	72	44	69	40	73	35	81	36	79	56	83	60	75	69	71	45
Blooming Grove, .....	70	54	70	52	69	47	61	41	62	35	62	37	72	41	70	46	74	47	67	43	65	35
Brookville, .....																						
Cannonsburg, .....	72	60	71	58	67	48	65	43	70	43	71	42	76	47	81	56	78	59	80	53	74	41
Carlisle, .....	74	60	67	58	78	54							78	45	77	53	82	57	73	51	72	45
Cassandra, .....	67	56	67	56	66	51	59	45	60	39	65	35	69	34	76	47	76	50	60	48	69	35
Centre Hall, .....	70	58	64	53	68	50	62	46	61	44	66	40	72	46	72	66	79	65	74	65	67	40
Chambersburg, .....	75	59	71	59	75	49	67	40	68	44	72	38	76	40	80	48	81	50	76	55	71	40
Coatesville, .....	77	61	70	58	75	57	72	50	72	44	74	46	80	44	81	52	80	52	80	50	74	42
Confluence, .....	83	52	75	55	69	46	72	42	72	41	66	39	68	42	76	46	82	48	83	56	80	50
Coopersburg, .....	72	62	68	58	71	54	67	49	69	47	71	46	73	47	74	56	75	54	74	52	68	44
Derry Station, .....	74	60	70	57	73	56	73	41	68	38	69	37	71	36	75	52	81	54	81	53		
Drifton, .....	70	53	71	51	68	48	62	42			68	42	74	40	79	45	74	52			78	34
Dunmore, .....	75	59	63	51	72	43	67	35	71	34	72	37	78	41	79	45	82	58	67	34	74	43
Dushore, .....	71	57	64	52	76	51	76	39	64	33	68	30	76	34	70	40	80	50	75	45	66	31
Dyberry, .....																						
Easton, .....	75	59	71	57	74	53	73	48	70	50	72	56	73	63	74	57	77	53	76	50	70	43
Emporium, .....	71	58	67	53	69	50	62	45	65	40	69	36	76	44	76	46	80	52	68	44	71	35
Erle, .....	65	58	66	52	62	48	56	45	58	42	62	45	66	54	71	54	76	54	52	45	58	40
Franklin, .....	71	55	70	53	68	47	69	44	65	36	64	37	73	44	79	50	80	52	63	39	72	33
Gettysburg, .....																						
Gramplan, .....	66	58	66	54	62	48	60	46	62	40	64	36	72	46	74	52	78	56	64	46	66	34
Greensboro, .....	74	59	74	59	80	50	75	53	68	47	69	39	76	40	84	59	84	52	71	52	57	40
Greenville, .....	71	58	65	53	65	49	60	42	63	34	61	36	69	45	72	50	77	55	63	46	62	33
Hallstead, .....	72	54	70	53	74	58					69	34	73	37	74	42	79	48	70	46	66	34
Hamburg, .....	75	60	68	62	76	58	76	70	71	52	75	46	78	52	79	56	80	55	77	56	74	46
Hamlington, .....	73	49	63	55	69	52	59	45	66	42	62	43	68	46	65	49	76	55	67	44	60	40
Harrisburg, .....	75	59	66	56	73	55	64	49	68	48	69	46	75	51	76	60	79	56	72	52	71	48
Holidaysburg, .....	72	56	71	56	74	46	67	45	71	39	72	35	75	39	82	46	85	47	75	47	76	36
Honesdale, .....																						
Huntingdon, .....	75	57	69	55	74	50	65	45	69	41	73	46	76	39	82	47	85	50	79	54	73	34

Indiana, .....	73	53	69	55	63	46	62	40	66	41	69	48	71	49	79	53	78	52	61	34	78	61
Irwin, .....																						
Johnstown, .....	70	58	70	58	68	50	64	46	65	41	70	38	74	43	80	48	83	51	69	55	74	38
Kennett Square, .....	75	59	70	58	73	53	70	50	70	47	73	48	77	45	78	54	79	52	78	55	70	41
Lancaster, .....	68	42	70	46	72	46	74	48														
Lawrenceville, .....	75	60	71	53	74	50	65	45	64	38	70	34	76	40	77	42	79	51	75	49	70	31
Lebanon, .....	74	57	68	57	72	54	68	46	72	43	73	40	77	44	77	53	79	53	77	51	71	43
Le Roy, .....	71	57	66	50	71	54	56	42	59	41	64	40	77	45	68	45	78	54	70	43	63	35
Lewisburg, .....	75	59	66	55	73	46	65	42	69	42	73	37	77	42	77	49	80	55	73	46	72	36
Lock Haven, .....	75	60	75	56	76	55	68	44	71	45	73	39	80	43	81	48	85	51	85	56	77	36
Lycippus, .....	77	58	71	56	71	57	67	40	62	41	66	41	69	48	72	56	79	58	80	51	57	37
Mauch Chunk, .....	73	55	66	56	72	53	68	46	70	42	73	45	78	40	79	49	81	49	75	56	75	43
Philadelphia (a), .....	76	61	72	60	74	59	68	53	69	53	72	53	76	55	77	58	78	56	73	50	69	47
Philadelphia (b), .....	76	62	71	62	73	59	71	52	68	51	72	51	78	52	76	59	78	56	74	57	70	45
Pittsburgh, .....	72	60	71	58	68	49	62	45	64	42	68	44	74	50	80	55	80	60	66	43	71	40
Pottstown, .....	75	65	65	60	75	57	70	50	73	49	78	49	75	49	79	55	80	56	80	52	71	45
Quakertown, .....	75	59	68	59	72	58	68	45	71	41	72	42	75	40	76	53	77	49	77	55	70	39
Renova, .....	73	59	67	55	73	53	66	45	68	43	70	38	78	43	77	48	82	51	68	43	74	38
Saegertown, .....	70	56	64	46	65	41	61	41	64	30	63	30	75	37	80	46	78	50	65	47	70	26
Scranton, .....	73	58	72	55	73	53	68	46	66	40	70	39	75	41	71	49	79	50	71	47	66	40
Sellinsgrove, .....	76	52	76	55	75	56	74	45	70	45	71	35	78	42	76	48	80	48	72	49	70	36
Shingle House, .....	77	47	70	46	70	40	68	34	70	32	68	28	74	40	76	38	78	46	68	42	70	28
Skippack, .....	77	60	70	57	73	51	70	40	72	40	75	40	76	40	75	45	78	45	76	40	70	36
Smethport, .....	69	57	68	48	67	43	61	40	63	36	66	30	72	41	74	40	76	44	53	44	71	30
Somerset, .....	63	50	65	52	68	44	58	40	60	42	64	32	68	40	78	50	76	50	76	46	70	35
South Bethlehem, .....	70	50	69	52	63	51	62	42	64	42	67	40	70	43	72	49	79	53	80	51	78	59
South Eaton, .....	72	58	69	55	71	55	61	44	65	39	67	47	74	47	69	50	77	51	70	47	64	40
State College, .....	72	59	65	53	70	53	62	46	62	45	66	49	72	51	74	53	81	58	72	47	69	39
St. Marys, .....	67	52	66	51	64	41	65	41	61	37	65	35	72	42	72	47	76	51	53	43	67	34
Swarthmore, .....																						
Swiftwater, .....	69	54	65	52	68	50	62	41	64	41	62	39	71	42	70	45	73	48	72	45	63	40
Towanda, .....	72	58	65	55	73	55	62	46	65	37	68	35	77	40	71	46	78	50	74	48	65	35
Uniontown, .....	67	59	71	58	66	57	65	40	66	44	66	39	72	45	79	56	80	54	60	53	72	39
Warren, .....	72	57	68	50	68	44	60	44	64	35	67	33	68	44	77	46	78	44	66	45	70	34
Wellsboro, .....	72	56	60	50	62	50	62	44	62	37	63	52	70	36	72	35	78	54	56	48	68	32
West Chester, .....	74	62	69	59	71	57	67	49	69	48	70	46	74	48	73	57	77	54	76	50	67	43
Westtown, .....																						
White Haven, .....	70	53	73	50	68	49	62	42	63	40	66	43	72	38	71	50	76	49	66	45	70	42
Wilkes-Barre, .....	76	59	74	55	79	53	67	42	70	40	73	38	78	42	77	50	83	50	75	53	72	37
Williamsport, .....	74	59	64	56	71	57	65	47	63	46	69	40	76	46	80	52	79	55	66	62	72	39
York, .....	76	62	68	59	76	57	66	44	67	43	70	40	75	64	76	50	80	56	79	54	70	52

Maximum and Minimum Temperatures for Pennsylvania, May, 1897—Continued.

Stations.	23.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	79	41	71	52	58	50	68	39	70	34	72	38	61	46	75	38	68	50	70.1	45.1
Aqueduct, .....	74	58	80	61	63	55	66	41	73	38	78	50	64	51	73	50	72	60	72.4	52.4
Blooming Grove, .....	72	53	73	53	59	43	59	40	61	38	66	44	59	47	67	40	70	52	66.3	44.3
Brookville, .....																				
Cannonsburg, .....	82	53	65	53	60	46	62	41	71	40	70	44	55	48	73	45	67	48	69.0	47.0
Carlisle, .....	76	50	77	56	65	54	67	46	72	43	77	41	67	51	69	40	75	57	71.7	49.8
Cassandra, .....	78	44	66	54	51	45	61	34	64	33	67	35	50	44	71	48	63	47	64.8	44.1
Centre Hall, .....	72	50	72	53	61	47	62	43	67	42	70	46	61	41	70	48	66	51	67.6	48.2
Chambersburg, .....	77	41	76	55	62	47	67	41	70	34	74	38	63	47	69	40	73	54	70.4	44.9
Coatesville, .....	78	46	79	60	71	53	69	42	74	42	78	42	70	54	70	42	77	58	74.1	48.9
Confluence, .....	73	39	82	40	70	46	64	33	65	39	72	40	77	37	76	40	72	43	72.2	43.1
Coopersburg, .....	75	50	74	59	65	53	65	47	68	44	72	52	65	54	66	47	72	56	69.2	50.3
Derry Station, .....	81	37	84	54	66	47	66	31	63	35	72	39	67	34	56	39	78	47	70.9	43.9
Drifton, .....																				
Dunmore, .....	75	55	78	51	52	40	66	34	67	43	71	49	59	47	75	54	75	39	70.4	43.7
Dushore, .....	77	41	74	53	57	42	59	36	69	28	72	32	61	49	70	39	73	50	68.5	41.8
Dyberry, .....																				
Easton, .....	76	49	78	60	75	50	64	46	68	42	73	50	74	56	70	44	78	53	71.7	50.7
Emporium, .....	82	38	71	51	57	50	64	38	68	35	72	36	58	47	74	46	69	45	69.2	44.4
Erie, .....	75	51	58	49	54	45	57	42	60	43	62	46	52	44	67	47	54	40	60.9	46.5
Franklin, .....	79	45	65	49	52	44	64	36	62	24	67	39	52	45	70	40	53	41	67.2	43.0
Gettysburg, .....																				
Grampian, .....	76	42	66	52	52	44	66	38	66	38	68	40	52	42	72	46	66	44	65.9	44.8
Greensboro, .....	87	57	67	53	60	47	65	40	70	40	70	40	60	45	83	41	78	50	71.3	46.6
Greenville, .....	77	52	59	50	50	44	63	33	64	33	63	38	52	45	67	38	60	37	65.2	43.4
Hallstead, .....	75	40	75	55	57	45	60	34	62	35	65	45					70	40	68.6	43.9
Hamburg, .....	78	55	79	58	66	53	67	46	72	49	75	51	65	53	70	48	76	58	72.7	53.2
Hamlington, .....	71	47	73	57	64	46	56	41	58	41	61	49	49	43	68	44	65	54	64.5	47.1
Harrisburg, .....	75	52	75	56	62	52	65	48	71	47	74	50	62	53	67	49	71	57	69.6	51.7
Holidaysburg, .....																				
Honesdale, .....	82	39	74	52	60	50	71	51	73	31	75	34	63	47	76	35	71	47	72.3	44.4

Huntingdon, .....	80	40	75	53	67	52	69	33	73	33	87	65	66	48	73	43	77	40	72.3	44.2
Indiana, .....	71	56	66	46	65	45	67	42	63	42	67	51	58	41	59	43	71	53	67.1	46.4
Irwin, .....																				
Johnstown, .....	82	42	66	54	53	47	65	40	63	36	71	39	61	47	78	38	67	69	68.8	45.2
Kennett Square, .....	78	50	77	58	63	54	67	44	70	44	75	44	66	54	70	43	73	58	71.9	49.5
Lancaster, .....																				
Lawrenceville, .....	79	43	75	51	59	48	60	40	66	32	69	35	62	46	76	47	71	62	70.0	45.3
Lebanon, .....	76	49	77	56	67	52	67	44	73	43	74	42	65	50	69	41	74	57	71.2	48.3
Le Roy, .....	70	50	76	50	56	42	55	37	62	38	67	43	58	44	72	45	67	50	65.4	44.6
Lewisburg, .....	72	48	74	56	64	46	66	40	73	37	75	45	61	49	70	47	73	52	70.8	45.9
Lock Haven, .....	81	42	81	54	65	51	68	39	73	37	75	39	68	49	77	50	76	54	74.7	46.7
Lycippus, .....	73	51	81	53	66	44	53	39	64	39	66	45	71	43	62	42	76	47	68.1	47.2
Mauch Chunk, .....	77	41	79	58	63	53	65	44	70	40	77	44	61	52	69	40	75	56	71.4	47.6
Philadelphia (a), .....	77	53	79	58	70	50	67	48	70	50	73	52	68	55	72	51	75	60	71.8	53.5
Philadelphia (b), .....	77	53	77	60	72	55	67	47	72	48	76	51	71	58	72	50	77	59	72.5	53.6
Pittsburgh, .....	81	53	64	50	54	45	64	43	67	41	67	45	54	47	72	48	65	47	68.0	48.0
Pottstown, .....	80	54	80	60	71	53	69	47	73	47	74	48	66	56	71	49	75	59	73.1	52.8
Quakertown, .....	77	45	76	57	68	52	67	42	70	40	74	46	67	51	70	40	74	54	71.3	47.4
Renova, .....	80	43	73	53	58	47	67	40	71	36	74	39	64	48	75	50	75	52	71.5	46.3
Saegertown, .....	79	45	67	47	61	41	63	29	66	28	68	32	60	40	69	35	68	34	68.7	38.7
Scranton, .....	71	40	76	52	60	48	61	43	65	39	70	46	64	50	72	40	73	51	70.0	45.9
Selinsgrove, .....	74	49	76	57	63	51	70	40	71	36	75	40	62	50	69	50	74	51	71.4	45.9
Shingle House, .....	80	38	78	40	54	44	60	32	64	28	70	30	60	40	72	42	66	40	69.3	37.5
Skippack, .....	78	45	76	48	70	52	70	49	70	37	68	39	73	41	70	40	74	56	72.2	45.0
Smethport, .....	79	40	65	48	52	44	62	30	65	30	69	30	49	40	68	38	63	36	66.3	40.1
Somerset, .....	76	42	65	50	52	42	60	39	62	32	68	38	58	32	74	38	62	42	65.1	40.0
South Bethlehem, .....	72	58	63	41	70	48	75	62	73	61	62	40	64	42	52	48	68	51	68.3	50.7
South Eaton, .....	72	42	73	56	58	44	61	44	64	39	67	43	63	49	68	48	68	44	67.2	46.4
State College, .....	76	55	69	55	57	49	63	41	67	40	69	42	63	48	69	47	65	51	67.6	47.5
St. Marys, .....	69	43	66	50	53	44	61	36	65	35	67	35	47	40	69	45	65	40	65.2	42.2
Swarthmore, .....																				
Swiftwater, .....	73	40	73	56	60	47	59	44	63	42	69	45	61	43	66	44	69	46	65.8	45.2
Towanda, .....	74	48	74	48	58	46	60	40	74	36	70	42	59	47	69	47	69	55	68.1	45.3
Uniontown, .....	78	52	64	53	54	47	66	46	67	38	64	40	55	47	73	40	67	47	66.7	46.5
Warren, .....	79	44	66	48	56	45	62	34	65	34	68	35	58	44	68	40	68	34	68.5	42.5
Wellsboro, .....	78	40	72	46	56	42	62	34	64	32	72	37	58	42	68	40	68	47	65.9	41.5
West Chester, .....	76	50	74	58	66	52	64	44	68	45	72	47	65	54	68	46	72	59	69.8	51.2
Westtown, .....																				
White Haven, .....	73	40	70	54	65	43	59	40	60	35	70	40	67	40	66	36	69	50	66.6	42.9
Wilkes-Barre, .....	78	44	79	55	60	49	67	42	70	38	71	44	68	51	75	42	76	56	72.3	47.0
Williamsport, .....	74	45	72	56	60	52	63	41	69	39	73	45	70	50	70	51	70	45	69.2	48.7
York, .....	80	51	76	57	60	52	64	42	71	39	74	40	64	50	69	41	72	57	70.5	49.7

Daily Precipitation for Pennsylvania, May, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....	•	1.91	.....	.10	.....	.....	.....	.....	.....	.17	.....	.28	.200	.41	.....	.....
Blooming Grove, .....	•	3.32	.....	.12	†	.....	.....	.....	.....	†	.....	.....	2.30	.42	.....	†
Browers' Lock, .....	.....	2.41	.08	.....	.....	.....	.....	.....	.....	.36	.....	.32	1.21	.....	.55	.....
Coatesville, .....	.54	1.34	.26	.....	.....	.....	.....	.....	.....	.18	†	.78	1.47	.57	.05	.....
Coopersburg, .....	.36	.67	.07	.....	.10	.....	.....	.....	.....	.03	.....	1.00	2.75	.20	.24	.....
Doylestown, .....	.71	.181	.09	.....	.....	.....	.....	.....	.....	.22	.....	.24	1.87	.....	.33	.....
Dyberry, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Easton, .....	•	1.44	.15	.....	.....	.....	.....	.....	.....	.14	.....	•	2.35	•	.33	.....
Forks of Neshaminy, .....	.30	2.05	.10	.....	.....	.....	.....	.....	.....	.30	.....	.20	.63	.37	.....	.....
Frederick, .....	.73	1.82	.12	.03	.....	.....	.....	.....	.....	.10	.....	.16	2.63	.25	.28	.....
Hamburg, .....	•	2.50	.52	†	.....	.....	.....	.....	.....	†	.....	1.40	2.04	.55	.....	.....
Hamlington, .....	.12	2.15	.03	.11	.05	.....	.....	.....	.....	.....	.04	.11	1.77	.12	.40	.....
Honesdale, .....	•	1.40	.40	.10	.....	.....	.....	.....	.....	.....	.....	.05	2.00	.....	.22	.....
Kennett Square, .....	.67	1.40	.18	.01	.....	.....	.....	.....	.....	.15	.....	.32	1.35	.63	.36	.....
Lansdale, .....	.45	2.48	.07	.....	.....	.....	.....	.....	.....	.55	.....	.88	1.16	.....	.....	.....
Mauch Chunk, .....	•	3.43	.15	.21	.....	.....	.....	.....	.....	.....	.....	.58	1.83	.43	.....	.....
Ottsville, .....	.....	2.49	.05	.....	.....	.....	.....	.....	.....	.....	.....	.20	2.95	.19	.33	.....
Philadelphia (a), .....	.24	.62	.12	†	†	.....	.....	.....	.....	.14	†	.39	1.29	.02	.18	.....
Philadelphia (b), .....	.45	1.03	.12	†	†	.....	.....	.....	.....	.13	†	.35	1.56	.04	.19	.....
Point Pleasant, .....	.50	2.58	.....	.....	.....	.....	.....	.....	.....	.46	.....	.18	2.82	.....	.33	.....
Pottstown, .....	•	2.50	.15	.....	.....	.....	.....	.....	.....	.07	.....	.....	.28	2.00	.64	.....
Quakertown, .....	†	2.48	.11	.09	.....	.....	.....	.....	.....	.06	†	.58	2.38	†	.48	.....
Reading, .....	.68	2.14	.24	.12	.....	.....	.....	.....	.....	.18	.....	.48	1.91	.43	.10	.....
Selsholtzville, .....	.53	2.50	.08	.....	.....	.....	.....	.....	.....	.28	.....	.54	2.23	.45	.....	.....
Shawmont, .....	.31	1.42	.13	.....	.....	.....	.....	.....	.....	.07	.....	.24	1.43	.....	.35	.....
Skippack, .....	2.00	.82	.10	.....	.....	.....	.....	.....	.....	.43	.....	†	1.90	.43	.33	.....
Smith's Corners, .....	.44	2.62	.11	.08	.....	.....	.....	.....	.....	.43	.....	.21	2.73	.24	.24	.....
Swiftwater, .....	†	3.00	†	.15	.....	.....	.....	.....	.....	†	.....	.41	2.00	.25	.....	.....
West Chester, .....	.75	1.51	.16	.....	.....	.....	.....	.....	.....	.20	.....	.29	1.38	.72	.04	.....
White Haven, .....	.....	1.80	.....	.30	.....	.....	.....	.....	.....	.09	.....	.20	2.16	.35	.....	.....

Susquehanna Basin.														
Altoona, .....	.40	1.42	.12	.18	.02	†	.01	†	.29	.52	.10	.....	†	.....
Aqueduct, .....	.58	.84	†	.82	.....	.....	†	.17	.27	1.92	.15	.....	.....	.....
Carlisle, .....	.85	.40	1.00	.28	.12	.....	.....	.....	.14	2.20	.....	.20	.....	.....
Centre Hall, .....	2.40	.....	.68	.59	.....	.....	.10	.....	.51	.80	.22	.....	.....	.....
Drifton b, .....	.....	1.15	.12	.14	.....	.....	.10	.....	.05	1.80	.50	.....	†	.....
Dunmore, .....	.....	1.11	.23	.....	.....	.....	.08	.....	.....	2.17	.39	.....	.....	.....
Dushore, .....	*	.72	.20	.45	.....	.....	.27	.....	.14	1.14	.62	.....	.....	.....
Emporium, .....	.14	.83	.16	.23	.12	.....	.36	†	.82	.21	.20	†	.....	.....
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Girardville, .....	.49	1.62	.20	.16	.....	.....	.02	.....	.25	2.25	.66	.....	.....	.....
Gramplan, .....	.33	.96	.....	.35	.06	.....	.39	.....	.88	.50	.20	.....	.....	.....
Hallstead d, .....	†	.35	*	.33	.20	.....	.26	.....	.17	1.30	.14	†	.....	.....
Harrisburg, .....	.56	.49	.28	.11	.05	.....	†	.....	.59	1.82	.59	.....	.....	.....
Holidaysburg, .....	.62	1.25	.11	.17	.06	.....	.08	.....	.42	.70	.11	.....	.....	.....
Huntingdon, .....	.....	3.00	.23	.14	.12	.....	.12	.....	.38	.70	.....	.....	.....	.....
Lancaster, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	.09	.39	.82	.41	.....	.....	.50	.....	.38	.22	.26	.....	.....	.....
Lebanon, .....	.34	1.14	.35	.08	.06	.....	.16	.....	1.59	1.43	.54	.....	.....	.....
Le Roy, .....	.02	.77	.47	.57	.10	.....	.37	.....	.25	.75	.15	.35	.....	.....
Lewisburg, .....	.15	.43	.51	.25	.11	.....	.....	.....	.18	1.19	.50	.....	.....	.....
Lock Haven, .....	*	1.47	.....	.60	.20	.....	.12	.60	.22	.67	.37	.....	.....	.....
Renova, .....	.26	1.27	.07	.39	.08	.....	.25	.....	.43	.58	.17	.....	.....	.....
Scranton, .....	.....	.98	.01	.19	.....	.....	.11	.....	.03	1.97	.45	.....	.....	.....
Sellsgrove, .....	.28	.69	.30	.25	.12	.....	.....	.....	.18	1.87	.15	.....	.....	.....
South Eaton, .....	.....	1.32	.11	.29	.....	.....	.14	.....	.09	1.71	.54	.....	.....	.....
State College, .....	.45	1.22	.28	.28	.03	.....	.21	.01	.44	.72	.16	.....	†	.....
Towanda, .....	†	.63	.41	.18	.....	.....	.36	.....	.23	.59	.20	.....	.....	.....
Wellsboro, .....	.02	1.60	.20	1.66	.....	.....	.50	†	.75	.40	†	.....	.....	.....
Wilkes-Barre, .....	.....	1.25	.....	.....	.....	.....	.10	.....	.....	1.95	.70	.....	.....	.....
Williamsport, .....	.....	.73	.....	.65	.13	.....	.10	.....	.12	.75	.15	.....	.....	.....
York, .....	.63	.46	.25	.21	.....	.....	.19	†	.63	1.92	.60	.....	.....	.....
Ohio Basin.														
Beaver Dam, .....	.02	1.06	†	†	.....	.....	.23	.14	.25	.09	.10	.05	.....	.....
Brookville, .....	.10	.64	.....	.19	.02	.....	.17	.....	.14	.08	.05	.....	.04	.....
Cannonsburg, .....	.05	.04	.....	†	.04	.....	.06	.74	.70	.05	.....	.....	.....	.....
Cassandra, .....	.82	1.44	.17	.14	.03	.....	.12	.06	.29	.59	.12	.....	.15	.....
Confluence, .....	.....	1.04	.06	.16	.26	.....	.09	.05	.77	.56	.30	.15	.04	.....
Davis Island Dam, .....	.28	1.10	.04	.01	.03	.....	.07	.09	.67	.10	.09	.04	.....	.....
Derry Station, .....	.32	.77	.....	.01	.21	.....	.10	.08	.36	1.16	.12	.....	.....	.....
Du Bois, .....	.49	.80	.16	.19	.10	.....	.20	.14	.25	.43	.11	.18	.....	.....
Elwood Junction, .....	.20	1.13	.....	†	.05	.....	.25	†	.24	.20	.02	.....	.....	.....

Daily Precipitation for Pennsylvania, May, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Franklin, .....	.78	.39	.....	†	.....	.....	.....	.....	.31	.51	†	1.05	.....	.15	.....	.....
Freeport, .....	.39	.90	.....	.....	.07	.....	.....	.....	.....	.10	.23	.75	.52	.09	.02	.....
Greensboro, .....	.20	1.55	.15	.15	.....	.....	.....	.....	.25	1.07	.25	.25	.25	.10	.....	.....
Greenville, .....	.52	.....	.....	.05	†	.....	.....	.....	.28	1.44	.....	.66	.....	.31	.....	.....
Indiana, .....	.14	.27	†	.26	.....	.....	.....	.....	.24	.19	.42	.43	.15	.02	.....	†
Irwin, .....	1.07	†	.01	.09	.....	.....	.....	.15	.....	.05	.45	.53	.03	†	†	†
Johnstown, .....	.17	.76	.....	.07	.30	.....	.....	.....	.....	.34	.04	.24	.71	.20	.16	.....
Lock No. 4, .....	.14	1.18	.....	†	.05	.....	.....	.....	.....	.17	.08	.34	.33	.03	†	.....
Lycippus, .....	.....	.92	.03	.17	.....	.....	.....	.....	.02	.12	.39	1.44	.10	.20	.....	.....
Oil City, .....	.30	.56	.17	†	.17	.....	.....	.....	.....	.58	.34	.97	.40	.04	.04	.....
Parker's Landing, .....	.40	.70	.17	.....	.08	.....	.....	.....	.....	.15	.20	.20	.42	.08	.05	.....
Pittsburgh, .....	.94	.39	.....	.03	.01	.....	.....	.....	.04	.05	.05	.61	.06	.05	.....	.....
Ridgway, .....	.17	.90	.43	.19	.05	.....	.....	.....	.....	.16	.28	.23	.48	.05	.12	.....
Saegerstown, .....	.15	.70	.....	.08	.15	.....	.....	.....	1.38	.....	.....	.38	.....	.41	.....	.....
Shingle House, .....	†	.51	.08	.33	.06	.....	.....	.....	.....	.53	.....	.42	†	.11	.....	.....
Smethport, .....	.10	.60	.....	.30	.10	.....	.....	.....	.....	.60	.....	.40	.05	.15	.....	.....
Somerset, .....	.....	1.05	.25	.78	.....	.....	.....	.....	†	.10	.17	.78	.65	.27	.....	.....
St. Marys, .....	*	1.23	*	.30	.....	.....	.....	.....	.14	.23	.52	.....	.07	.15	†	†
Uniontown, .....	.73	.80	.07	.17	.....	.....	.....	.....	.20	.15	.17	.99	.61	†	.....	.....
Warren, .....	.04	.78	.....	.34	.11	.....	†	.....	.....	1.42	.....	.97	.10	.02	.14	.....
West Newton, .....	.28	1.05	.08	†	.13	.....	.....	.....	.....	.28	.08	.30	.28	.10	†	.....
Potomac Basin.																
Chambersburg, .....	.65	.35	.53	.08	.11	.....	.....	.....	.....	.02	.....	.80	1.87	.65	.....	.....
Lake Basin.																
Erle, .....	.27	.35	†	.29	.02	†	†	.....	†	.63	.....	.29	.....	.16	.....	.....

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch  
‡Report missing.

Daily Precipitation for Pennsylvania, May, 1897—Continued.

Stations.	Day of Month.															Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	
Delaware Basin.																
Bethlehem, .....					.25			.86						.07		6.05
Blooming Grove, .....					†		.29	.38				.01		.03		6.87
Browsers' Lock, .....					.09			1.27						.20	.51	7.00
Coatesville, .....	.10				.10			.83	.15					.13	.78	7.28
Coopersburg, .....					.42			.90	.38					.08	.14	8.74
Doylestown, .....					.34			.73	.38					.37	.80	7.89
Dyberry, .....																
Easton, .....					.24			.35	.66				.01	*	.06	5.75
Forks of Neshaminy, .....					.89			.16	.48					.33	.78	6.34
Frederick, .....					.82			.83	.22					.12	.74	8.85
Hamburg, .....					†		†	1.08						.06		8.15
Hamlington, .....					.02			.35	.53						.04	5.84
Honesdale, .....				.04			.28	1.42						.01		5.92
Kennett Square, .....					.50			1.40	.24					.30	.45	7.96
Lansdale, .....					.53		.78	.80						.27	.65	8.62
Mauch Chunk, .....								.42	.56						.03	7.64
Ottsville, .....				.23	.24			.15	.24					.10	.64	7.81
Philadelphia (a), .....					.54			.27	.11						.41	4.33
Philadelphia (b), .....					.23			.24	.10		†			†	.52	4.96
Point Pleasant, .....					1.13			.16		.68				.27	.87	9.98
Pottstown, .....					.47			.41	.39					.36		7.27
Quakertown, .....					.21			.21	.78					.04	.36	7.77
Reading, .....					1.11			1.96	.13					.02	.20	9.70
Seisholtzville, .....					.12			1.58	.19						.13	8.58
Shawmont, .....					.12			.22	.43					.20	.62	5.54
Skippack, .....					.60			.30	.93					.35	1.06	9.25
Smith's Corners, .....					.89			.15	.70					.22	.99	10.06
Swiftwater, .....							†	.45	.35							6.61
West Chester, .....					.06			1.35	.12					.23	.67	7.47
White Haven, .....					†		.03	1.42	.03						.11	6.49



Daily Precipitation for Pennsylvania, May, 1897—Continued.

Stations.	Day of Month.														Total.	
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.		31.
Susquehanna Basin.																
Altoona, .....							†	†					.01			3.09
Aqueduct, .....							.04	1.06	.06				†		.02	5.93
Carlisle, .....							.05	1.00								6.54
Centre Hall, .....							.39		.10							5.79
Drifton b, .....					.02		.75	.45						.08		4.86
Dunmore, .....									1.17							5.15
Dushore, .....					.06		.04	1.03	.20				†			4.87
Emporium, .....				.02	.16		.03	.09	.49				†			3.42
Gettysburg, .....																
Girardville, .....							.91	1.70								8.27
Gramplan, .....					.10		.06		.73							4.55
Hallstead d, .....					.28			*	1.84				†	†	†	4.87
Harrisburg, .....					†		.01	.61	.08				†			5.30
Holidaysburg, .....																3.52
Huntingdon, .....																4.69
Lancaster, .....																
Lawrenceville, .....							.31		.47				.18		.06	4.35
Lebanon, .....							†	.77	†				†		.02	6.52
Le Roy, .....					.01		.46	.10	.47							4.84
Lewisburg, .....							.06	.92								4.30
Lock Haven, .....							.40		.35							5.00
Renova, .....					.10		.22		.59				†			4.41
Scranton, .....					.01			.60	.47							4.82
Selinsgrove, .....							†	.80	.10							4.74
South Eaton, .....					.03			.88	.18							5.29
State College, .....			.11				.15		.17							4.13
Towanda, .....					.02		*	.94	.17				†			3.73
Wellsboro, .....							.20	†	.15				†	.05	†	5.53
Wilkes-Barre, .....					.10		.55	.90								5.81
Williamsport, .....								.16	.06							2.85
York, .....					.75			.60	.19				†		.06	6.61

Ohio Basin.														
Beaver Dam.														2.87
Brookville.														1.71
Cannonsburg.														1.79
Cassandra.														4.13
Confluence.														3.91
Davis Island Dam.														3.57
Derry Station.														4.03
Du Bois.														4.11
Elwood Junction.														2.61
Franklin.														3.66
Freeport.														3.65
Greeneboro.														4.93
Greenville.														4.10
Indiana.														2.98
Irwin.														2.79
Johnstown.														3.71
Lock No. 4.														2.63
Lycippus.														4.08
Oil City.														4.12
Parker's Landing.														3.41
Pittsburgh.														2.70
Ridgway.														3.81
Saegerstown.														3.95
Shingle House.														3.20
Smethport.														2.90
Somerset.														4.65
St. Marys.														3.44
Uniontown.														4.52
Warren.														4.20
West Newton.														3.08
Potomac Basin.														
Chambersburg.														5.03
Lake Basin														
Erie.														3.04

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

## JUNE, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 29.98 inches, is .01 below the normal. At the United States Weather Bureau stations the highest observed was 30.26 inches, at Harrisburg, on the 2d, and the lowest, 29.68 inches, at Philadelphia, on the 13th.

### Temperature.

The means of the daily maximum and minimum temperatures, 76.3 degrees and 53.4 degrees respectively, give a monthly mean of 64.8 degrees, which is 4.2 degrees below the normal, and 2.6 degrees below the corresponding months of 1896.

The average daily range was 22.9 degrees.

The highest monthly mean was 69.4 degrees, at Gettysburg and Pottstown.

The lowest monthly mean was 59.8 degrees, at Shingle House and Wellsboro.

The highest temperature recorded during the month was 96 degrees on the 30th, at Coatesville, Gettysburg and Lebanon, and on the 25th at Aqueduct.

The lowest temperature was 28 degrees, on the 2d at Saegerstown and Shingle House.

The greatest local monthly range was 62 degrees, at Hollidaysburg and Saegerstown.

The least local monthly range was 32 degrees, at Erie.

The greatest daily range was 50 degrees, at Greenville and Shingle House.

### Precipitation.

The average precipitation for the month, 3.38 inches, is 0.69 inches less than the normal.

The largest totals of rainfall, in inches, were: Forks of Neshaminy, 6.42; Smiths Corners, 6.00; Shawmont, 5.59; Ottsville, 5.55; Brookville, 5.19; Beaver Dam, 5.06. The least were: Cannonsburg, 1.11; Chambersburg, 1.22; Carlisle, 1.52; Hollidaysburg, 1.66; Harrisburg, 1.83; Derry Station, 1.99.



TOTAL PRECH

Scale of Sh...  
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less than 2 2.0

ATION, JUNE, 1897.



inches.



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**Wind and Weather.**

The prevailing wind was from the northwest.

Average number of rainy days, 11; clear, 11; partly cloudy, 11; cloudy, 8.

**Miscellaneous Phenomena.**

Thunderstorms.—1, 3, 4, 7, 8, 11, 12, 13, 15, 16, 17, 19, 20, 23, 24, 25, 29, 30.

Hail.—Coopersburg., Lock Haven, Quakertown, White Haven, 1st; Somerset, St. Marys, 13th; Coatesville, 25th.

Lunar Halo.—Pittsburgh, on the 11th.



Climatological Data for Pennsylvania, June, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.			Prevailing direction of wind.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.
Altoona, .....	Blair, .....	1,181	10	64.6	-6.9	87	30	33	2	43	3.05	-1.57	1.51	.....	12	8	.....	.....	NW
Aqueduct, .....	Perry, .....	367	9	68.7	-4.1	96	25	39	2	31	2.93	-0.37	0.58	.....	13	0	11	11	NW
Blooming Grove, .....	Pike, .....	.....	33	60.5	-6.7	84	24	33	27	37	3.30	-0.83	.....	.....	12	21	23	8	W
Brookville, .....	Jefferson, .....	1,173	13	.....	.....	.....	.....	.....	.....	.....	5.19	+1.40	1.91	.....	15	.....	1	8	SW
Cannonsburg a, .....	Washington, .....	336	25	67.9	-0.5	90	30	42	2	37	1.11	-2.37	0.50	.....	6	21	6	3	S
Carlisle, .....	Cumberland, .....	480	50	67.4	-3.8	95	30	39	2	37	1.52	-2.22	0.44	.....	9	18	7	5	NW
Cassandra, .....	Cambria, .....	2,100	.....	62.4	.....	83	30	32	2	42	2.88	.....	0.74	.....	12	7	17	6	W
Centre Hall, .....	Centre, .....	1,100	.....	62.9	.....	84	30	39	2	31	4.03	.....	0.94	.....	8	8	11	11	.....
Chambersburg, .....	Franklin, .....	1,000	35	66.1	-3.4	92	30	36	2	37	1.23	-2.92	0.36	.....	11	8	9	13	W
Coatesville, .....	Chester, .....	890	10	67.5	-3.0	96	30	41	2	35	2.92	-0.54	1.56	.....	8	14	12	4	W
Confluence, .....	Somerset, .....	1,324	23	66.0	.....	90	24	39	13	44	2.48	-1.92	0.90	.....	9	8	5	17	NW
Coopersburg, .....	Lehigh, .....	520	8	65.3	-4.6	88	30	46	21	27	4.33	+1.37	0.87	.....	15	11	14	5	NW
Derry Station a, .....	Westmoreland, .....	1,172	.....	66.3	.....	89	16	34	2	40	1.99	.....	0.72	.....	14	11	14	4	W
Drifton, .....	Luzerne, .....	1,633	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	Lackawanna, .....	1,117	.....	62.8	.....	89	24	36	1	38	3.32	.....	1.24	.....	9	13	15	2	S
Dushore, .....	Sullivan, .....	1,590	.....	61.8	.....	87	24	30	2	46	3.09	.....	0.56	.....	16	14	8	8	N
Dyberry, .....	Wayne, .....	1,100	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Easton, .....	Northampton, .....	325	14	66.2	-4.7	88	30	44	21	32	3.26	-0.38	1.12	.....	12	12	12	6	.....
Edinboro* 1, .....	Erie, .....	1,220	9	62.8	-4.3	84	24	38	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Emporium, .....	Cameron, .....	1,050	10	63.1	-6.5	88	24	36	2	39	2.04	-2.89	0.58	.....	7	12	14	4	W
Erie, .....	Erie, .....	1,400	24	62.3	-4.7	81	23	42	2	28	3.01	-0.99	1.09	.....	11	10	12	8	W
Everett, .....	Bedford, .....	.....	.....	64.2	.....	87	30	33	2	40	5.00	.....	2.20	.....	11	7	15	8	NW
Forks of Neshaminy 1, .....	Bucks, .....	304	9	67.4	-3.3	.....	.....	.....	.....	.....	6.42	+2.49	.....	.....	13	13	2	15	NW
Franklin, .....	Venango, .....	955	22	63.2	+0.7	89	24	37	1	41	2.90	-2.15	1.83	.....	8	14	10	6	SE
Gettysburg, .....	Adams, .....	.....	32	69.4	-0.4	96	30	40	12	32	.....	.....	.....	.....	.....	20	4	6	SW
Grampian, .....	Clearfield, .....	1,450	24	63.7	-3.3	83	24	36	2	38	3.14	-1.12	0.84	.....	10	1	20	10	W

Greensboro, .....	768	9	68.4	.....	96	24	41	21	39	4.15	-0.46	1.10	.....	11	4	15	11	SW
Greenville, .....	1,000	6	63.2	-3.8	98	30	34	2	50	3.55	-0.14	1.39	.....	12	7	19	4	NW
Hallatcad 1, .....	.....	.....	60.6	.....	.....	.....	35	2	.....	2.80	.....	.....	.....	9	11	9	10	NW
Hamburg, .....	380	7	63.2	-3.4	93	30	46	22	33	4.59	+2.06	2.61	.....	5	5	19	6	NW
Hamilton, .....	1,600	9	62.0	-5.9	82	24	42	2	26	3.59	-0.25	1.45	.....	13	5	14	11	NW
Harrisburg, .....	361	9	67.4	-2.6	91	30	47	2	25	1.83	-1.71	0.69	.....	11	7	12	11	W
Holidaysburg b, .....	947	10	65.4	-5.5	93	30	31	2	47	1.66	-2.19	0.70	.....	10	16	7	5	W
Honesdale, .....	1,000	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntingdon, .....	650	10	65.8	-3.7	90	30	39	23	38	4.27	+0.02	1.50	.....	11	7	14	9	W
Indiana, .....	1,350	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	884	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown, .....	1,184	10	65.5	-5.0	88	30	37	2	44	3.67	-1.11	1.15	.....	11	13	5	12	.....
Kennett Square, .....	275	8	66.3	-4.1	93	30	41	2	31	2.78	-0.36	0.77	.....	12	9	13	8	S
Lancaster, .....	413	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	10	14	6	NW
Lawrenceville a, .....	1,006	.....	66.4	.....	88	24	34	21	45	2.55	.....	.....	.....	.....	.....	.....	.....	.....
Lebanon, .....	458	10	66.4	-3.7	96	30	39	2	34	3.00	+0.02	0.75	.....	.....	.....	.....	.....	.....
Le Roy, .....	1,400	9	61.6	-6.3	84	24	39	21	33	3.77	-0.70	0.67	.....	14	8	15	12	SW
Lewisburg a, .....	450	26	65.5	-4.1	92	30	38	2	36	2.31	-1.86	0.54	.....	10	10	11	9	W
Lock Haven, .....	560	10	66.9	-3.8	94	30	38	2	44	3.05	-1.42	1.05	.....	12	10	10	10	W
Lycippus, .....	1,420	5	67.2	-3.1	89	25	42	21	32	2.42	-0.41	0.50	.....	13	.....	.....	.....	.....
Mauch Chunk, .....	550	8	64.6	-5.0	90	30	40	23	40	2.08	-1.94	0.45	.....	14	15	8	7	W
Philadelphia, .....	117	26	68.9	-3.1	91	30	49	2	26	4.53	+1.40	1.37	.....	11	4	15	11	NW
1529 Centennial Avenue, .....	120	7	69.0	-4.4	92	30	48	2	26	4.19	+1.17	1.99	.....	13	6	16	8	NW
Pittsburgh, .....	842	27	68.0	-4.0	88	30	43	2	37	2.97	-0.53	0.78	.....	11	7	19	4	NW
Pottstown, .....	150	10	69.4	-3.4	93	30	46	2	28	4.90	+0.77	1.35	.....	7	.....	.....	6	W
Quakertown, .....	536	23	64.0	-4.3	90	30	39	2	41	3.81	+0.44	1.96	.....	12	3	13	14	NW
Reading 2, .....	280	24	67.4	-4.1	.....	.....	.....	.....	.....	3.03	-0.38	0.94	.....	13	.....	.....	.....	.....
Renova, .....	672	.....	66.4	.....	88	30	39	2	38	2.59	.....	.....	.....	12	14	10	6	.....
Saegerstown, .....	1,200	6	61.2	-6.4	90	24	28	2	46	3.53	+0.26	1.83	.....	10	3	13	9	NW
Scranton, .....	746	.....	63.2	.....	87	24	34	21	43	3.43	.....	.....	.....	10	10	13	7	W
Selinsgrove, .....	455	9	69.2	-2.0	92	30	38	2	39	2.62	-1.61	0.78	.....	7	4	13	13	SW
Shingle House, .....	1,475	.....	59.8	.....	86	24	28	2	50	3.49	.....	.....	.....	12	7	16	7	NW
Skippack, .....	145	.....	64.5	.....	91	30	39	2	39	4.37	.....	.....	.....	9	16	9	5	W
Smethport, .....	1,500	8	60.4	-5.9	85	24	30	2	45	2.95	-1.61	0.80	.....	11	6	13	11	NW
Somerset, .....	2,250	41	62.0	-4.4	84	24	32	2	46	2.56	-1.13	0.66	.....	8	7	15	8	NW
South Bethlehem, .....	339	7	66.4	-5.4	88	30	40	2	27	4.03	-0.28	1.26	.....	11	17	8	5	W
South Eaton, .....	660	8	62.2	-5.9	83	20	39	2	32	3.92	+0.91	0.88	.....	14	14	10	6	NW
State College, .....	1,191	10	64.1	-4.2	87	30	38	2	33	3.03	-0.67	0.73	.....	13	7	13	10	W
St. Marys a, .....	1,740	.....	60.9	.....	85	24	32	2	41	2.13	.....	.....	.....	10	7	12	10	W
Swarthmore, .....	190	9	63.5	-2.8	91	30	47	1	30	4.28	-0.37	.....	.....	.....	1	23	6	SW
Swiftwater a, .....	1,600	.....	61.2	.....	81	30	38	2	31	3.35	.....	.....	.....	5	23	3	4	NW
Towanda, .....	754	.....	62.6	.....	87	24	37	2	40	2.11	.....	.....	.....	14	13	12	5	NW
Uniontown k, .....	681	10	65.2	-6.7	89	30	40	2	35	2.93	-2.14	.....	.....	.....	12	4	3	NW

Climatological Data for Pennsylvania, June, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing direction of wind.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.		
Warren, .....	Warren, .....	1,137	9	61.6	.....	87	24	34	6	48	2.50	-1.90	0.77	.....	11	17	9	4	N
Wellshoro, .....	Tioga, .....	1,327	19	59.8	-5.0	85	24	32	21	45	2.85	-2.00	1.50	.....	9	12	6	12	W
West Chester, .....	Chester, .....	455	43	66.8	-3.5	91	30	45	2	25	2.43	-1.76	1.01	.....	12	17	7	6	W
Westtown, .....	Chester, .....	350	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	Luzerne, .....	1,150	.....	60.4	.....	88	25	36	22	41	2.32	.....	0.58	.....	11	6	19	5	S
Wilkes-Barre, .....	Luzerne, .....	575	13	65.2	-5.7	91	25	39	2	38	3.72	-0.58	1.20	.....	10	17	8	5	N
Williamsport, .....	Lycoming, .....	530	8	64.0	-5.8	87	30	38	21	36	3.89	+0.63	2.05	.....	11	15	8	7	W
York, .....	York, .....	385	10	66.8	-3.9	93	30	38	2	35	2.42	-0.97	0.73	.....	14	10	14	6	W

\*Extremes of temperature from observed readings of dry thermometers.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4. 2 Mean of 8 a. m. + 8 p. m. ÷ 2.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.

Maximum and Minimum Temperatures for Pennsylvania, June, 1897.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	65	39	76	33	84	53	79	59	74	53	80	45	64	54	57	52	62	54	70	50	78	42
Aqueduct, .....	74	60	66	39	73	55	78	61	78	57	82	56	64	50	62	48	70	50	73	61	85	54
Blooming Grove, .....	64	41	74	39	78	51	81	60	69	50	74	45	59	48	55	47	55	47	53	50	75	49
Brookville, .....																						
Cannonsburg, .....	70	46	79	43	93	66	75	60	74	51	78	51	72	61	70	55	68	54	72	47	78	51
Carlisle, .....	70	47	76	39	82	58	86	60	75	60	80	50	65	56	57	73	65	54	74	55	81	49
Cassandra, .....	59	38	74	32	79	61	72	60	69	51	75	44	60	55	53	52	59	53	66	51	70	43
Centre Hall, .....	62	42	69	39	80	58	74	59	70	55	74	43	70	55	56	51	63	52	67	56	74	48
Chambersburg, .....	66	41	73	36	81	54	83	57	75	60	78	46	76	56	60	52	63	52	74	52	79	42
Coatesville, .....	69	43	76	41	83	55	86	65	79	59	78	52	62	55	59	53	65	54	75	53	83	50
Confluence, .....	65	47	80	48	83	49	84	57	79	53	72	46	80	50	65	50	65	55	70	51	75	47
Coopersburg, .....	63	46	69	46	78	55	79	63	73	53	72	53	64	55	59	52	61	53	67	56	77	53
Derry Station, .....	78	39	70	34	80	55	86	62	77	53	76	45	84	62	70	57	70	56	66	50	76	44
Drifton, .....																						
Dunmore, .....	56	36	75	45	82	60	84	53	76	44	82	47	61	50	57	50	58	51	62	46	80	54
Dushore, .....	59	35	69	30	83	57	84	61	76	49	80	40	70	48	53	49	53	52	65	53	80	42
Dyberry, .....																						
Easton, .....	72	45	71	45	79	56	82	62	75	57	76	51	74	54	61	52	62	53	68	57	80	53
Emporium, .....	58	40	75	36	83	59	78	60	73	48	77	46	64	50	60	54	59	54	68	54	76	49
Erie, .....	53	45	70	42	76	61	61	54	68	50	75	54	68	55	57	47	60	51	66	51	72	52
Everett, .....	64	40	73	33	82	52	77	56	72	56	75	46	53	56	59	53	65	54	71	49	75	45
Franklin, .....	78	37	81	59	75	59	72	57	74	56	79	46	66	51	59	55	63	50	65	48	72	45
Gettysburg, .....	80	64	82	66	78	60	74	53	76	62	80	63	77	63	72	54	74	62	70	62	68	56
Gramplan, .....	56	42	72	36	80	60	74	53	80	54	72	53	62	54	58	52	62	54	63	54	74	50
Greensboro, .....	63	48	88	49	89	60	78	53	76	52	85	50	78	59	69	56	69	56	75	49	84	50
Greenville, .....	55	43	73	34	80	63	70	57	70	45	69	46	69	50	60	53	65	55	73	50	72	46
Hallstead, .....	57	39	76	35	82	50	82	63	70	54	77	44	65	52	57	53	60	51	63	53	76	58
Hamburg, .....	66	47	77	48	82	59	84	60	77	53	80	55	61	56	59	52	62	55	72	59	82	53
Hamilton, .....	55	44	67	42	78	55	79	63	69	54	72	49	68	50	54	47	55	50	59	52	70	57
Harrisburg, .....	66	52	71	47	80	60	81	64	75	59	77	54	62	55	57	53	64	53	72	53	77	55
Holidaysburg, .....	67	37	73	31	83	56	73	57	76	52	81	43	66	54	59	53	64	54				

Maximum and Minimum Temperatures for Pennsylvania, June, 1897—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Honesdale, .....	73	43	74	39	88	54	80	56	78	55	80	44	72	57	60	53	70	54	75	53	78	44
Huntingdon, .....																						
Indiana, .....																						
Irwin, .....																						
Johnstown, .....	64	40	81	37	85	55	76	59	74	54	81	47	64	54	61	55	63	55	71	53	77	45
Kennett Square, .....	67	45	73	41	83	50	85	54	75	53	76	54	63	54	61	52	63	54	71	52	78	51
Lancaster, .....																						
Lawrenceville, .....	65	54	77	62	84	73	83	71	77	63	79	65	70	59			67	54	63	54	80	44
Lebanon, .....	66	44	73	39	81	55	83	60	75	59	79	49	64	55	57	52	63	53	73	53	79	48
Le Roy, .....	54	42	72	40	79	56	80	56	66	52	73	49	66	52	63	48	60	48	60	50	75	50
Lewisburg, .....	63	42	74	38	80	57	83	63	76	57	80	47	66	56	58	53	65	53	71	56	78	46
Lock Haven, .....	71	42	80	38	87	50	84	42	82	54	82	49	69	53	61	53	66	54	81	47	86	56
Lycippus, .....	76	44	84	42	82	63	85	62	76	52	76	51	81	59	63	55	65	55	64	50	79	50
Mauch Chunk, .....	64	43	77	43	81	52	87	60	75	56	79	45	59	54	60	50	63	51	69	57	81	46
Philadelphia (a), .....	66	54	72	49	83	57	84	67	74	59	74	57	60	53	60	53	63	54	71	57	78	53
Philadelphia (b), .....	69	52	73	48	83	57	86	67	76	58	73	58	60	55	60	53	62	54	74	56	80	56
Pittsburgh, .....	63	47	79	42	83	67	75	61	72	54	79	54	72	62	62	56	67	55	73	49	79	53
Pottstown, .....	66	50	74	46	81	59	85	67	76	62	78	56	75	57	60	56	66	56	74	60	80	54
Quakertown, .....	65	40	72	39	80	52	85	60	74	55	76	48	60	54	59	49	62	51	70	52	79	48
Renova, .....	70	43	76	39	87	57	81	64	76	53	79	48	74	54	61	54	65	55	70	57	77	48
Saegertown, .....	60	32	70	28	79	57	79	55	75	40	80	38	77	46	60	48	65	56	70	46	83	40
Scranton, .....	72	43	73	39	83	57	83	64	70	55	78	45	65	49	67	53	59	51	64	55	79	49
Selinsgrove, .....	64	42	72	33	81	45	83	54	82	57	80	48	72	55	59	52	65	53	74	52	84	45
Shingle House, .....	56	34	78	28	82	40	77	45	78	48	78	38	80	36	64	50	68	52	66	52	76	44
Skippack, .....	65	41	72	39	72	42	84	50	76	58	75	50	65	55	60	52	64	50	71	54	78	52
Smethport, .....	56	34	75	30	80	53	80	59	71	41	77	39	63	51	56	51	60	52	68	53	72	42
Somerset, .....	60	38	78	32	79	55	70	53	70	42	73	40	62	52	62	52	67	50	66	42	70	48
South Bethlehem, .....	61	42	64	40	72	48	76	52	82	59	75	53	63	55	68	52	70	54	68	53	73	55
South Eaton, .....	59	41	69	39	79	54	90	63	69	55	74	46	65	55	57	51	59	51	63	55	75	48
State College, .....	59	49	71	38	81	62	78	64	72	53	75	47	67	55	55	51	63	52	65	54	76	47
St. Marys, .....	56	39	73	32	81	56	73	56	73	46	76	41	65	50	56	50	61	52	64	52	73	40
Swarthmore, .....	66	47	75	53	82	65	75	59	76	53	76	57	61	55	60	56	63	57	73	56	78	64





Huntingdon, .....	77	49	80	57	84	49	88	55	85	60	74	56	81	53	83	50	82	60	71	41	77	39
Indiana, .....																						
Irwin, .....																						
Johnstown, .....	78	56	77	55	80	56	86	58	85	57	70	66	80	64	87	57	73	57	68	46	80	42
Kennett Square, .....	81	61	73	54	82	59	85	59	83	62	68	54	81	56	82	51	83	60	72	47	75	48
Lancaster, .....																						
Lawrenceville, .....	78	58	80	53	82	46	84	56	80	55	64	48	85	54	85	43	71	61	75	34	82	37
Lebanon, .....	81	60	74	52	83	53	86	60	82	62	69	58	81	57	80	49	83	63	73	45	76	43
Le Roy, .....	72	56	71	53	71	51	78	58	73	55	67	50	71	51	78	50	68	48	64	39	72	42
Lewisburg, .....	83	56	83	54	82	54	82	56	82	59			79	55	81	47	78	54	72	41	76	41
Lock Haven, .....	80	54	85	51	90	58	84	61	70	54	82	55	86	48	81	63	77	41	80	42	88	44
Lycippus, .....	80	64	75	55	80	54	79	63	85	65	84	65	76	61	78	65	85	63	71	42	70	49
Mauch Chunk, .....	84	56	77	50	80	50	87	50	82	52	62	51	80	46	82	45	78	63	73	40	78	40
Philadelphia (a), .....	84	65	74	63	81	62	86	66	82	65	70	61	80	57	84	63	85	61	72	52	76	56
Philadelphia (b), .....	84	64	74	61	83	60	87	64	84	63	72	60	79	56	85	59	85	61	74	51	78	54
Pittsburgh, .....	77	62	83	59	80	59	86	66	84	68	76	67	79	66	83	65	70	50	67	44	76	52
Pottstown, .....	83	63	74	58	83	61	86	62	83	63	67	61	82	62	83	55	85	65	73	49	76	50
Quakertown, .....	82	58	74	52	80	54	85	52	80	54	62	52	80	54	82	47	83	58	72	41	75	41
Renova, .....	82	68	75	58	81	59	85	58	80	61	64	55	80	56	82	48	75	64	71	46	78	42
Saegerstown, .....	77	49	80	48	79	43	80	50	75	55	75	55	78	54	84	44	78	56	64	32	78	32
Scranton, .....	78	55	75	53	76	54	84	48	78	46	67	49	77	49	80	45	74	60	70	34	72	40
Sellinsgrove, .....	86	48	82	48	84	59	78	54	82	56	89	59	90	64	90	59	89	62	90	59	85	49
Shingle House, .....	74	42	74	40	76	42	81	53	77	53	66	48	77	53	82	40	68	52	64	32	79	35
Skippack, .....	80	54	82	52	82	50	82	52	82	58	76	54	81	55	83	47	84	45	73	52	75	43
Smethport, .....	74	52	71	52	76	43	80	53	77	57	59	50	78	53	81	42	67	56	65	33	76	34
Somerset, .....	72	50	74	46	75	50	80	55	78	60	70	54	74	60	82	62	68	52	58	40	72	36
South Bethlehem, .....	80	58	83	56	81	58	82	57	85	59	78	57	72	58	69	59	73	56	72	58	67	59
South Eaton, .....	75	55	72	52	75	54	81	49	76	52	64	50	74	55	77	45	73	61	67	41	72	41
State College, .....	72	58	74	56	78	56	78	59	81	59	70	52	76	53	78	52	73	61	67	44	72	44
St. Marys, .....	74	53	72		76	50	80	54	80	55	69	53	75	53	81	46	67	47	67	36	75	38
Swarthmore, .....	81	58	75	61	81	60	85	63	81	64	68	58	82	57	84	64	82	52	73	52	78	59
Swiftwater, .....	75	53	71	54	73	53	78	51	64	52	64	48	73	53	75	46	72	52	65	42	70	44
Towanda, .....	75	59	75	51	76	52	83	51	77	49	63	48	76	54	80	43	69	60	69	39	76	38
Uniontown, .....																						
Warren, .....	75	53	74	52	78	48	78	54	80	58	63	54	78	56	87	46	71	64	65	40	77	38
Wellsboro, .....	74	54	73	52	75	44	82	50	76	54	56	47	76	52	80	35	68	50	68	32	73	34
West Chester, .....	80	64	72	58	80	59	84	62	80	64	67	62	78	57	81	57	81	62	70	48	73	50
Westtown, .....																						
White Haven, .....	78	52	72	47	76	47	82	47	62	47	68	45	75	50	78	41	75	49	68	37	72	36
Wilkes-Barre, .....	83	58	77	55	81	51	85	53	82	52	71	52	80	52	84	46	77	50	74	41	78	42
Williamsport, .....	80	55	74	56	79	53	83	60	78	58	60	53	78	56	79	50	80	54	70	38	76	44
York, .....	81	60	73	53	82	63	85	58	81	62	69	58	78	59	82	52	80	62	73	47	76	45



Maximum and Minimum Temperatures for Pennsylvania, June, 1897—Continued.

Stations.	22.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	86	49	87	60	85	60	75	56	76	45	83	54	84	60	87	72	.....	76.8	52.5	
Aqueduct, .....	88	57	93	65	96	66	79	60	78	48	83	53	92	65	93	68	.....	79.7	57.7	
Blooming Grove, .....	80	52	84	57	83	63	69	51	70	33	79	49	77	53	80	64	.....	71.7	49.3	
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Cannonsburg, .....	83	53	85	65	85	67	.....	.....	78	52	81	51	81	61	90	73	.....	78.5	57.3	
Carlisle, .....	87	56	90	63	92	63	80	63	78	50	79	59	87	53	95	67	.....	79.2	55.6	
Cassandra, .....	82	51	83	60	80	63	70	53	74	43	79	45	79	57	83	70	.....	72.5	52.4	
Centre Hall, .....	80	51	83	52	82	61	69	53	69	46	75	47	80	61	64	63	.....	73.0	52.3	
Chambersburg, .....	85	52	88	63	89	62	79	61	73	48	77	47	85	60	92	66	.....	78.7	53.5	
Coatesville, .....	84	52	88	59	92	67	80	62	80	49	82	49	86	53	96	72	.....	79.3	55.2	
Confluence, .....	78	43	90	69	86	54	85	49	89	49	86	46	85	53	86	64	.....	80.2	51.8	
Coopersburg, .....	80	55	86	62	85	63	75	61	74	49	78	51	82	62	88	70	.....	74.5	56.1	
Derry Station, .....	80	50	87	65	87	64	85	55	69	46	62	45	86	56	85	64	.....	78.7	53.9	
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Dunmore, .....	85	62	89	63	87	50	74	39	76	44	82	52	83	66	85	55	.....	76.2	49.5	
Dushore, .....	84	48	87	62	81	62	76	45	77	33	83	38	84	67	86	66	.....	76.5	47.2	
Dyberry, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Easton, .....	81	55	87	62	86	66	81	59	75	47	79	50	85	61	88	71	.....	77.3	55.0	
Emporium, .....	84	48	88	60	84	62	78	50	72	40	79	43	82	56	85	70	.....	74.8	51.4	
Erie, .....	81	60	79	63	72	60	64	55	69	50	69	52	80	62	76	67	.....	69.3	55.3	
Everett, .....	83	50	85	62	83	63	84	53	76	49	77	48	82	62	87	67	.....	75.4	53.1	
Franklin, .....	85	49	89	62	80	60	71	49	76	45	80	45	79	43	85	57	.....	75.7	50.6	
Gettysburg, .....	80	72	90	74	86	72	88	64	90	62	92	62	90	66	96	64	.....	78.6	60.3	
Grampian, .....	84	50	88	62	80	62	83	54	76	44	78	46	78	53	84	72	.....	73.3	54.1	
Greensboro, .....	83	59	95	57	78	60	78	60	78	61	78	60	79	61	92	71	.....	79.9	57.0	
Greenville, .....	83	51	81	66	79	60	80	48	63	40	83	43	91	41	98	69	.....	74.8	51.6	
Hallstead, .....	.....	40	.....	57	.....	64	.....	59	.....	50	.....	38	.....	40	75	66	.....	70.8	50.5	
Hamburg, .....	87	57	87	67	90	66	77	61	78	57	84	51	88	61	93	71	.....	78.7	57.6	
Hamlington, .....	80	56	82	64	77	67	75	54	66	46	74	47	80	69	75	63	.....	70.1	53.9	
Harrisburg, .....	83	53	85	67	83	63	77	60	76	55	75	53	84	62	91	71	.....	76.2	53.3	
Holidaysburg, .....	90	48	92	58	89	61	79	53	78	44	84	43	87	59	93	68	.....	79.5	51.3	
Honesdale, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

Huntingdon, .....	86	43	88	61	88	60	78	44	88	52	80	44	85	59	90	64	.....	79.8	51.8
Indiana, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown, .....	86	52	88	54	88	55	78	57	78	46	84	46	84	56	88	70	.....	77.5	53.5
Kennett Square, .....	84	56	84	61	90	66	84	61	77	50	80	49	83	59	93	70	.....	77.7	54.9
Lancaster, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	88	49	88	68	82	63	74	49	80	40	85	42	79	56	84	68	.....	78.5	54.4
Lebanon, .....	84	54	88	66	91	66	78	59	77	49	79	49	86	61	96	69	.....	78.0	54.7
Le Roy, .....	83	55	84	63	79	63	65	51	68	44	79	51	78	60	80	66	.....	71.6	51.6
Lewisburg, .....	84	51	85	65	88	62	76	52	77	46	81	45	83	64	92	70	.....	77.9	53.1
Lock Haven, .....	90	61	88	63	84	50	81	45	86	48	83	61	90	60	94	69	.....	81.6	52.2
Lycippus, .....	79	53	85	69	89	66	83	57	72	47	74	52	82	60	85	68	.....	77.6	56.8
Mauch Chunk, .....	87	47	89	61	89	63	75	53	77	43	81	44	85	60	90	67	.....	77.7	51.4
Philadelphia (a), .....	85	61	88	67	90	71	77	62	75	58	81	61	84	65	91	73	.....	77.6	60.2
Philadelphia (b), .....	84	61	88	66	91	71	78	64	79	55	82	59	85	64	92	72	.....	78.7	59.3
Pittsburgh, .....	84	62	85	70	84	65	73	61	73	54	80	54	82	64	88	73	.....	77.0	59.0
Pottstown, .....	86	60	90	65	90	70	79	63	77	53	82	62	88	64	93	75	.....	79.2	59.5
Quakertown, .....	83	50	88	56	89	63	75	56	76	45	80	44	86	45	90	63	.....	76.8	51.3
Renova, .....	85	49	85	62	86	65	81	65	78	57	81	43	80	59	88	67	.....	77.8	55.1
Saegertown, .....	86	44	90	64	82	54	75	40	74	36	77	35	78	54	86	66	.....	76.0	46.4
Scranton, .....	85	42	87	60	85	64	75	55	73	39	81	43	82	59	83	67	.....	75.8	50.7
Selinsgrove, .....	89	54	90	68	87	65	91	71	88	68	85	64	90	66	92	68	.....	82.4	56.1
Shingle House, .....	85	43	86	56	82	60	70	46	78	34	76	36	78	52	74	52	.....	75.0	44.5
Skippack, .....	82	49	89	55	90	60	79	46	79	46	81	45	85	57	91	70	.....	77.9	51.1
Smethport, .....	82	40	85	55	81	60	69	46	73	34	80	38	80	53	83	69	.....	78.1	47.6
Somerset, .....	82	52	84	54	82	61	70	57	74	44	82	60	80	60	83	65	.....	73.2	50.9
South Bethlehem, .....	82	66	88	68	87	70	74	58	72	56	80	62	87	63	88	70	.....	75.9	57.0
South Eaton, .....	80	54	83	65	82	63	73	53	70	40	76	44	79	59	82	67	.....	72.6	51.9
State College, .....	81	53	84	64	84	62	74	55	73	45	77	47	81	62	87	70	.....	74.1	54.1
St. Marys, .....	84	45	85	53	81	53	69	49	72	37	79	42	81	56	83	60	.....	73.4	48.4
Swarthmore, .....	83	65	87	71	89	65	77	54	78	53	79	62	83	70	91	70	.....	77.3	59.7
Swiftwater, .....	77	49	80	60	81	61	68	50	68	43	74	44	79	59	81	67	.....	71.2	51.2
Towanda, .....	83	49	87	66	84	62	69	51	73	38	81	47	79	53	83	65	.....	74.6	50.6
Unlontown, .....	85	57	84	63	83	64	74	60	73	52	81	48	82	53	89	70	.....	76.0	54.3
Warren, .....	87	47	87	61	80	60	70	46	72	40	77	40	80	57	82	67	.....	74.6	48.6
Wellsboro, .....	80	38	85	62	80	59	72	42	74	35	78	36	75	50	84	65	.....	72.7	47.0
West Chester, .....	83	60	86	65	88	67	76	60	74	53	78	55	82	61	91	72	.....	75.7	57.9
Westtown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	81	45	85	62	88	64	70	43	80	39	78	40	82	53	84	58	.....	73.3	47.4
Wilkes-Barre, .....	87	52	89	63	91	65	75	53	77	42	83	46	88	64	90	68	.....	78.2	52.3
Williamsport, .....	82	49	82	66	83	65	71	57	72	45	78	50	78	55	87	66	.....	74.7	53.4
York, .....	85	53	87	65	90	65	78	61	76	49	79	50	87	60	93	72	.....	77.5	56.0

Daily Precipitation for Pennsylvania, June, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....	.02		.38	.46	.10			.47	1.26				.02		.38	
Blooming Grove, .....	.06			.58	.05			*	1.87	†			.01		.07	
Browers' Lock, .....				.80	.21			.47	1.27			.10	.04		.55	
Coatesville, .....			†	1.04	.52			.08	.10			.27				
Coopersburg, .....	.15		.55	.30	.20		.01	.76	.87				.09		.37	
Doylestown, .....		.38		.21	.23			.50	2.42				.09		.12	
Dyberry, .....			†													
Easton, .....	.08			†	.55			.90	1.12	.01		.08	.01	†	.01	
Forks of Neshaminy, .....	.07			.80	.13		.51	*	3.26				.14		.14	
Frederick, .....	.06			.89	.20			.40	.84				.11		.12	
Hamburg, .....	†		2.61	.40			†	.22	†						1.10	
Hamlington, .....	.08			.55	.15		.02	.02	1.45	.06					.04	
Honesdale, .....																
Kennett Square, .....			.01	.77	.25			.10	.08			.23	.02		†	.02
Lansdale, .....	.11		.87					.84	1.23				.04			
Mauch Chunk, .....	.03		.05	.20	.09			.10	.45			.03	.05		.02	
Ottsville, .....	.13		.43	.17	.20			.22	2.23				.04		.06	
Philadelphia (a), .....	†		†	.29	.56		†	.32	1.37			.06	.10		.50	
Philadelphia (b), .....	.01		†	.13	.53		†	.41	1.60	†		.04	.08		.50	
Point Pleasant, .....	.07		.66	.20				.47	2.85						.32	
Pottstown, .....				1.20	1.10			.30	.35			.48			1.35	
Quakertown, .....	.09		.24	.24	.29		†	.33	1.53				.09		.21	
Reading, .....	.01		.44	.84	.77			.05				.18	.02	.17	.35	
Seisholtzville, .....			.98	.18	.02		.45	.62					.17		.11	.15
Shawmont, .....	.04			.85	.43			.72	2.18			.05	.06		.33	
Skippack, .....	.15			1.12	.22			.20	1.60			†	.12		.43	
Smiths' Corners, .....	.08		.77	.21	.07			.49	2.50				.05		.37	
Swiftwater, .....	.20			.62	†		†	†	2.27	†						
West Chester, .....			.06	.31	.13			.14	.29			.05	.02		.04	
White Haven, .....	.15			.12	.10		.53	.16	†				.04		.12	.32

Susquehanna Basin.

Altoona, .....	.02	.40	.02	.03	.01	.31	†	.02	.53	.04	.04	.31	.06
Aqueduct, .....	.02	.42	.30	.03	.18	.40	.54	†	.53	.04	.04	.02	†
Carlisle, .....			.44	.05	.01	.22	.20		.24	.01			.20
Centre Hall, .....	.88		.10			.22		.30					
Drifton, .....													
Dunmore, .....	.08	.59	.34			•	1.24						
Dushore, .....	.10	.20	.23			.41	.56			.03	.11	.03	
Emporium, .....	†	.34			.03	.56	.11	†		†		†	
Everett, .....	†	.81	1.04			.11	.03	†		.10		.52	
Gettysburg, .....													
Girardville, .....	.22		.47	.11		.30	.58			.28		.51	.17
Gramplan, .....		.38			.20	.25		.13				.45	
Hallstead, .....	.08	†	.40		•	•	1.09	.05		†			
Harrisburg, .....	.01	.03	.13	.20	†	.69	.15	†	.30	.05		†	.10
Holidaysburg b, .....		.46	.24			.27		†	.09			.06	.05
Huntingdon, .....		.85	.24			.10						.20	
Lawrenceville, .....						.67	.08					.26	
Lebanon, .....	.12	.18	.75	.40	†	.58	.05		.19	.02		.02	
Le Roy, .....	.03	.63				.42	.67	.03		.02		.06	
Lewisburg, .....		†	.15			.28	.54			.20		.04	.38
Lock Haven, .....	.10	.95	.10			.20	.03		.08				.57
Renova, .....		.30	.26			.25	.03			.17		.04	
Scranton, .....	.10	.75	.34			.10	1.02					.12	
Selinsgrove, .....	.16	.16	.25			.25	.78						.45
South Eaton, .....	.13	.26	.68			.44	.53	.03		†	.09	.08	
State College, .....		.36	.25	.04	†	.25	.19		.17			.04	
Towanda, .....	†	.23	.03			.28	.63	†		.10		.06	
Wellsboro, .....		.25			†	.40	†	†		.15		†	
Wilkes-Barre, .....	.18	1.10	.10			•	1.02					.25	
Williamsport, .....		2.00	.05			•	.42			.26		.14	
York, .....	†	.13	.30	.34	†	.73	.07	†	.22	.14		†	.11
Ohio Basin.													
Beaver Dam, .....		.05	†		†	4.24			.10				.05
Brookville, .....		.02	.04		.03	.88		.06	.37	.03		.07	.90
Cannonsburg, .....		.10			.15	.26				.05			
Cassandra, .....	†	.74	.01		†	.26	.08	.02		.14		.64	
Confluence, .....	†		.90	†		.05	.09				.66		
Davis Island Dam, .....	†		.16		.01	3.12	.10	†	.02		†		.04
Derry Station, .....			.72	.07	.03	.19	.20	.01	.14				.05
Du Bois, .....			.14			.35	.21		.22			.04	.40
Elwood Junction, .....		.13	.03		†	3.07	.02		.30				.08

Daily Precipitation for Pennsylvania, June, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Franklin, .....	†	.13	.....	.....	.....	.....	1.83	.22	.....	.....	.12	.....	†	†	.....	.....
Freeport, .....	.....	.....	.....	.03	.....	.....	.02	1.20	.27	.....	.....	.05	.....	.....	.....	.02
Greensboro, .....	.....	.....	.....	1.00	.10	.....	.....	.60	.45	.....	.....	.....	†	.50	.....	.....
Greenville, .....	.....	.....	.08	.32	.....	.....	1.39	.58	.....	.....	.13	.18	.....	.....	†	.19
Indiana, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	†	.....	.04	.36	.....	.05	.06	.17	†	.....	†	.....	.04	.....	†	.32
Johnstown, .....	.....	.....	.....	.39	.40	.....	.....	.11	.20	†	.....	.05	.....	.45	.....	.43
Lock No. 4, .....	.....	†	.....	.40	.04	.....	.05	.29	.87	†	.....	.....	.....	.34	.....	.....
Lycippus, .....	.....	.....	.50	.43	.....	.06	.17	.11	.02	.....	.02	.....	.....	.....	.03	.03
Oil City, .....	.....	.....	.03	.17	.....	.....	.04	1.85	.07	.....	.....	.10	.....	.53	†	.33
Parkers' Landing, .....	.....	.....	†	.16	.....	.....	†	1.96	.55	.....	.....	.....	.....	.24	.....	.14
Pittsburgh, .....	†	.....	.14	.....	.....	.....	.66	.78	.02	.....	.01	.....	.09	.....	.....	†
Ridgway, .....	.....	.05	.10	.02	.....	.....	.64	.13	.....	.....	.....	.03	.....	.04	.....	.....
Saegerstown, .....	.....	.....	.....	.25	.....	.....	.58	1.83	.....	.....	.13	.....	.....	.....	.05	.12
Shingle House, .....	.....	.....	.36	.....	.....	.....	.....	.81	.05	.12	.....	.....	.....	.....	.05	.....
Smethport, .....	.....	.....	.20	.....	.....	.....	.20	.80	.....	.10	.....	.....	.....	.....	†	.....
Somerset, .....	.....	.....	.....	.55	.15	.....	.....	.12	.....	.....	.....	.....	.15	.....	.....	.66
St. Marys, .....	.....	.....	.13	.....	.....	†	.08	.46	.04	†	.16	.....	.....	.....	†	.27
Uniontown k, .....	.....	.....	.89	.17	.....	.....	.20	.23	.....	.....	†	.....	.....	.....	.....	.....
Warren, .....	.....	†	.03	.07	.....	.....	.12	.70	.01	.....	.....	.....	.....	.....	.23	.....
West Newton, .....	†	†	.....	.58	.07	.....	.03	.10	.22	†	.....	.....	.....	.42	.....	.....
Potomac Basin.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chambersburg, .....	.....	.....	.07	.18	.....	.....	.05	.10	.03	.....	.03	.....	.....	.....	.....	.27
Lake Basin.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erle, .....	†	.....	.09	.....	.....	.....	1.09	.41	.01	.....	.03	†	.12	.....	.33	.....

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

Daily Precipitation for Pennsylvania, June, 1897—Continued.

Stations.	Day of Month.																Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.		
Delaware Basin.																	
Bethlehem, .....	.63			.10					.21							4.08	
Blooming Grove, .....	.13		.37	†				.02	†				.13	.01		3.30	
Browers' Lock, .....	.16	.13		.56												4.29	
Coatesville, .....	.07			.25					.59							2.92	
Coopersburg, .....	.21	.44		.20				.02	.15				.01			4.33	
Doylestown, .....	†	.18		.66					.20							4.99	
Dyberry, .....																	
Easton, .....	.26	.03		.15					.07				†	†		3.26	
Forks of Neshaminy, .....	.09	.20		.48					.53					.07		6.42	
Frederick, .....		.25		.12					.23							3.22	
Hamburg, .....	.26								†				†			4.59	
Hamlington, .....		.17		.36					.45	.01				.23		3.59	
Honesdale, .....																	
Kennett Square, .....	.12	.07		.42					.69				†			2.78	
Lansdale, .....				.53					.60							4.22	
Mauch Chunk, .....	.21		.33	†					.34				.02	.16		2.08	
Ottsville, .....	.53			.22					.64					.03		5.55	
Philadelphia (a), .....	.03	.04		.92					.34				†	†		4.53	
Philadelphia (b), .....	.04	.07		.56				†	.17				†	†		4.19	
Point Pleasant, .....					.17			.18	.15					.02		5.04	
Pottstown, .....	.12															4.90	
Quakertown, .....	.12	.26		.20					.11				†	†		3.81	
Reading, .....	.03	.08		.05					.04							3.08	
Selsholtzville, .....	.11			.22					.11							3.12	
Shawmont, .....	.04	.07		.75					.02							5.59	
Skippack, .....	.10		†	.43									†			4.37	
Smiths' Corners, .....	.20	.22		.40				.23	.37					.04		6.00	
Swiftwater, .....	†	.16	†	.10					†				†			3.25	
West Chester, .....	.01	.04		.33					.01							2.43	
White Haven, .....			.12	.15					†				†	.42		2.32	

Daily Precipitation for Pennsylvania, July, 1897—Continued.

Stations.	Day of Month.															Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	
Susquehanna Basin.																
Altoona, .....	.26	†	†	.....	.....	.....	.....	1.51	.09	.....	.....	.....	†	†	.....	3.05
Aqueduct, .....	.26	†	.02	.12	.....	.....	.....	†	.....	.....	.....	.....	†	†	.....	2.93
Carlisle, .....	.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.52
Centre Hall, .....	.94	.....	.75	.....	.....	.....	.....	.65	.....	.....	.....	.....	.....	.18	.....	4.03
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	.15	.....	.43	.....	.....	.....	.....	.....	.37	.....	.....	.....	.....	.12	.....	3.32
Dushore, .....	.45	.07	.01	.37	.....	.....	.....	.04	.14	.....	.....	.....	.01	.33	.....	3.09
Emporium, .....	.30	.....	.12	.....	.....	.....	.....	.58	.....	.....	.....	.....	†	.....	.....	2.04
Everett, .....	.09	.01	.08	†	.....	.....	.....	2.20	.01	.....	.....	.....	†	.....	.....	5.00
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grandville, .....	.38	.....	.35	.20	.....	.....	.....	.55	.22	.....	.....	.....	.....	.....	.....	4.17
Grampian, .....	.36	.....	.03	.....	.....	.....	.....	.84	.....	.....	.....	.....	.....	.37	.....	3.14
Hallstead, .....	†	.18	.....	†	.....	.....	.....	.65	.....	.....	.....	.....	.35	.....	.....	2.80
Harrisburg, .....	.14	†	.03	†	.....	.....	.....	†	.....	.....	.....	.....	†	.....	.....	1.83
Holidaysburg b, .....	.30	.....	.04	.....	.....	.....	.....	.14	.....	.....	.....	.....	.....	.01	.....	1.66
Huntingdon, .....	.60	.....	.45	.07	.....	.....	.....	1.50	.16	.....	.....	.....	.05	.05	.....	4.27
Lawrenceville, .....	.09	.....	.09	.....	.....	.....	.....	.83	.....	.....	.....	.....	.25	.28	.....	2.55
Lebanon, .....	.17	.01	†	.03	.01	.....	.....	.....	.46	.01	.....	.....	†	.....	.....	3.00
Le Roy, .....	.32	.....	.37	.10	.....	.....	.....	.36	.63	.....	.....	.....	.03	.10	.....	3.77
Lew:sburg, .....	.....	.....	.....	.25	.38	.....	.....	.....	.06	.....	.....	.....	.03	.....	.....	2.31
Lock Haven, .....	.....	.30	.....	.....	.....	.....	.41	.21	.....	.....	.....	.02	.06	.....	.....	3.06
Renova, .....	.22	.....	.16	.....	.....	.....	.....	.55	.40	.....	.....	.....	.03	.18	.....	2.59
Scranton, .....	.02	.05	.....	.50	.....	.....	.....	.....	.43	.....	.....	.....	.....	.....	.....	3.43
Selinsgrove, .....	.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.62
South Eaton, .....	.13	.14	.09	.40	.....	.....	.....	.....	.88	.....	.....	.....	.03	.10	.....	3.92
State College, .....	.73	.....	.41	.27	.....	.....	.....	†	.10	.....	.....	.....	†	.13	.....	3.03
Towanda, .....	.06	.11	.12	.06	.....	.....	.....	.11	.09	.....	.....	.....	.04	.20	.....	2.11
Wellsboro, .....	.25	.....	.15	.....	.....	.....	.....	1.40	.10	.....	.....	.....	.10	.05	.....	2.85
Wilkes-Barre, .....	.34	.....	.35	.....	.....	.....	.....	.....	.10	.....	.....	.....	.....	.28	.....	3.72
Williamsport, .....	.25	.....	.16	.....	.....	.....	.....	.28	.26	.....	.....	.....	.....	.....	.....	3.89
York, .....	.15	.02	.05	.14	.....	.....	.....	.01	.01	.....	.....	.....	†	.....	.....	2.42

Ohio Basin.														
Beaver Dam, .....	.42	.08	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.06
Brookville, .....	.48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.19
Cannonsburg, .....	.06	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.11
Cassandra, .....	.74	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.88
Confluence, .....	.26	.15	.....	.....	.07	.....	.....	.....	.....	.....	.....	.....	.....	2.48
Davis Island Dam, .....	.36	.02	.....	.....	.17	.....	.....	.....	.....	.....	.....	.....	.....	4.00
Derry Station, .....	.02	.31	.....	.....	.08	.....	.....	.....	.....	.....	.....	.....	.....	1.99
Du Bois, .....	.02	.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.48
Elwood Junction, .....	.32	.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.71
Franklin, .....	.16	.....	.....	.....	.30	.....	.....	.....	.....	.....	.....	.....	.....	2.90
Freeport, .....	.06	.85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.46
Greensboro, .....	.65	.10	.....	.....	.50	.....	.....	.....	.....	.....	.....	.....	.....	4.15
Greenville, .....	.15	.....	.....	.....	.21	.....	.....	.....	.....	.....	.....	.....	.....	3.55
Indiana, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown, .....	.63	1.15	.....	.....	.04	.....	.....	.....	.....	.....	.....	.....	.....	2.87
Lock No. 4, .....	.27	.....	.....	.....	.62	.....	.....	.....	.....	.....	.....	.....	.....	3.67
Lycippus, .....	.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.72
Oil City, .....	.01	.16	.....	.....	.36	.....	.....	.....	.....	.....	.....	.....	.....	2.42
Parkers' Landing, .....	.....	.21	.....	.....	.10	.....	.....	.....	.....	.....	.....	.....	.....	4.05
Pittsburgh, .....	.27	.....	.....	.....	.34	.....	.....	.....	.....	.....	.....	.....	.....	3.69
Ridgway, .....	.....	.28	.....	.....	.23	.....	.....	.....	.....	.....	.....	.....	.....	2.97
Saegerstown, .....	.25	.....	.....	.....	.10	.....	.....	.....	.....	.....	.....	.....	.....	2.88
Shingle House, .....	.....	.....	.....	.....	.29	.....	.....	.....	.....	.....	.....	.....	.....	3.58
Smethport, .....	.15	.....	.....	.....	.10	.....	.....	.....	.....	.....	.....	.....	.....	3.49
Somerset, .....	.31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.95
St. Marys, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.56
Uniontown k, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.13
Warren, .....	.16	.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Newton, .....	.24	.06	.....	.....	.76	.....	.....	.....	.....	.....	.....	.....	.....	2.50
Potomac Basin.														
Chambersburg, .....	.10	.....	.....	.....	.07	.....	.....	.....	.....	.....	.....	.....	.....	1.22
Lake Basin.														
Erle, .....	.01	.....	.....	.....	.02	.....	.....	.....	.....	.....	.....	.....	.....	3.01

•Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.



## JULY, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 29.96 inches, is .04 below the normal. At the United States Weather Bureau stations the highest observed was 30.32 inches, at Philadelphia, on the 19th, and the lowest, 29.65 inches, at Philadelphia, on the 12th.

### Temperature.

The means of the daily maximum and minimum temperatures, 83.7 degrees and 63.2 degrees respectively, give a monthly mean of 73.4 degrees, which is 2.4 degrees above the normal, and 0.6 degrees above the corresponding month of 1896.

The average daily range was 20.5 degrees.

The highest monthly mean was 78.0 degrees, at Aqueduct.

The lowest monthly mean was 69.5 degrees, at Swiftwater.

The highest temperature recorded during the month was 103 degrees, on the 6th, at Aqueduct, and on the 5th and 6th at Derry Station.

The lowest temperature was 41 degrees, on the 29th, at Lock Haven.

The greatest local monthly range was 57 degrees, at Lock Haven.

The least local monthly range was 31 degrees, at Philadelphia, Weather Bureau.

The greatest daily range was 45 degrees, at Saegerstown.

### Precipitation.

The average precipitation for the month, 6.26 inches, is 2.11 inches more than the normal.

The largest totals of rainfall, in inches, were: Saegerstown, 14.51; Swiftwater, 13.10; Forks of Neshiminy, 12.42; Shawmont, 11.45; Elwood Junction, 10.94; Philadelphia, Centennial Avenue, 10.25. The least were: Cannonsburg, 2.10; Lycippus, 2.82; Huntingdon, 3.13; South Eaton, 3.38; Cassandra, 3.44; Dushore, 3.63.

### Wind and Weather.

The prevailing wind was from the west.

Average number of rainy days, 14; clear, 10; partly cloudy, 11; cloudy, 10.



TOTAL PRECIP

P"

2  
3  
4

4"

SCALE


Under 4      4 to 6

ATION, JULY, 1897.

4"

4"



AN INCHES.



8 to 10

Over 10

1000



**Miscellaneous Phenomena.**

**Thunderstorms.**—1, 2, 3, 5, 6, 7, 8, 11, 12, 14, 16 to 22, 23, 25, 27, 28, 29, 30, 31.

**Hail.**—Coatesville, Philadelphia, Centennial Avenue, 23d; Dushore, Towanda, 14th; Everett, Swarthmore, 31st; Derry Station, 18th, 22d; Franklin, 27; Greenville, 22d; Saegerstown, 11th.

**Solar Halo.**—Harrisburg, 16th, 19th.

**Coronae.**—Towanda and Lebanon, 5th.







Climatological Data for Pennsylvania, July, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.				Prevailing direction of wind.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.
Unlontown, .....	Fayette, .....	681	10	73.5	+1.7	95	5	54	15	23	6.83	+1.29	2.31	.....	13	12	15	4	S
Warren, .....	Warren, .....	1,137	9	72.0	.....	95	5	51	15	33	6.15	+1.53	1.56	.....	11	16	1	14	S
Wellsboro, .....	Tioga, .....	1,337	19	71.0	+2.9	95	5	52	15	36	5.46	+2.41	1.75	.....	11	11	6	14	W
West Chester, .....	Chester, .....	455	43	74.8	+1.0	92	10	59	15	23	9.91	+4.97	3.72	.....	13	13	3	10	SE
Westtown, .....	Chester, .....	350	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	Luzerne, .....	1,150	.....	70.8	.....	94	10	53	9	33	6.49	.....	1.45	.....	13	10	13	8	S
Wilkes-Barre, .....	Luzerne, .....	575	13	74.8	+3.6	99	10	54	26	36	3.76	-0.65	0.90	.....	9	15	2	14	N
Williamsport, .....	Lycoming, .....	530	8	73.0	+0.3	93	10	57	15	23	4.77	+0.95	1.22	.....	15	17	7	7	W
York, .....	York, .....	385	10	75.7	+2.9	95	6	56	15	30	3.69	-0.50	1.36	.....	10	13	15	3	W

\*Extremes of temperature from observed readings of dry thermometers.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4. 3 Mean of 8 a. m. + 8 p. m. + 2.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.



Maximum and Minimum Temperatures for Pennsylvania, July, 1987—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Honesdale, .....	90	63	88	62	98	63	88	65	95	64	90	66	94	65	89	67	98	57	95	59	90	68
Huntingdon, .....																						
Indiana, .....																						
Irwin, .....																						
Johnstown, .....	85	65	88	70	96	64	96	66	99	70	91	71	94	68	90	66	96	61	95	63	86	70
Kennett Square, .....	87	64	83	67	90	66	87	66	90	66	91	68	87	68	86	67	90	63	93	65	90	70
Lancaster, .....																						
Lawrenceville, .....	90	61	90	58	97	61	95	64	99	70	94	68	98	62	95	65	100	64	98	63	73	63
Lebanon, .....	86	66	91	66	94	66	89	66	92	66	95	64	95	68	89	68	93	63	98	64	92	70
Le Roy, .....	79	59	78	60	89	63	85	68	95	66	84	68	87	65	86	66	92	64	92	68	87	70
Lewisburg, .....	86	61	87	63	91	61	88	68	93	69	95	68	93	68	86	68	93	69	96	63	92	73
Lock Haven, .....	93	61	87	64	95	64	96	68	99	70	90	65	96	65	91	70	95	63	98	64	93	68
Lycippus, .....	85	70	86	68	89	70	93	76	98	80	97	72	89	66	92	69	93	68	94	73	96	73
Mauch Chunk, .....	89	60	91	65	95	58	91	62	95	61	94	61	93	65	92	68	95	58	100	61	94	72
Philadelphia (a), .....	86	71	85	70	88	68	89	67	90	68	92	72	88	72	88	68	90	70	94	72	91	72
Philadelphia (b), .....	87	70	87	71	88	68	88	67	91	69	93	71	88	73	85	68	91	68	94	71	93	72
Pittsburgh, .....	88	72	91	68	96	70	98	75	99	70	90	72	91	71	90	74	91	71	95	71	88	68
Pottstown, .....	80	67	91	71	90	70	88	70	91	67	96	68	91	71	86	70	91	67	96	68	93	73
Quakertown, .....	87	59	88	65	90	58	87	62	90	62	94	63	91	66	87	64	92	59	96	62	92	68
Renova, .....	87	61	86	64	92	65	89	65	94	68	85	69	92	65	87	69	91	64	95	62	91	65
Saegerstown, .....	87	55	91	55	96	51	98	62	99	71	96	63	91	51	95	59	94	64	95	60	93	63
Scranton, .....	85	51	85	61	90	50	90	64	95	63	92	65	93	65	90	66	93	59	96	63	92	70
Selinsgrove, .....	87	65	87	62	81	67	90	62	92	67	94	70	92	68	85	65	91	61	95	63	91	70
Shingle House, .....	84	52	85	53	94	60	96	62	98	66	87	56	91	55	93	58	93	58	95	60	90	60
Skippack, .....																						
Smethport, .....																						
Somerset, .....	84	62	86	63	93	65	91	65	93	66	88	65	88	63	88	62	86	65	90	67	88	55
South Bethlehem, .....	88	68	87	63	90	72	88	70	90	68	94	73	95	70	90	68	86	67	90	70	96	72
South Eaton, .....	81	59	81	61	85	59	86	66	90	67	90	68	90	68	85	67	88	60	91	63	88	70
State College, .....	81	63	84	61	90	60	85	70	91	69	85	67	89	62	84	67	90	61	92	63	86	69
St. Marys, .....	85	57	86	58	92	57	96	65	90	67	89	63	87	61	84	65	88	60	91	61	86	63

Swarthmore, .....	87	72	85	68	89	69	89	71	91	72	93	74	89	68	88	66	92	69	94	76	91	73
Swiftwater, .....	81	57	83	60	81	57	81	57	85	60	89	63	86	62	81	61	85	58	89	58	96	65
Towanda, .....	85	57	83	61	90	65	90	65	96	66	91	67	94	63	88	67	93	60	95	62	92	69
Uniontown, .....	86	70	90	68	91	63	94	63	95	71	87	69	85	70	88	69	89	66	91	65	88	65
Warren, .....	84	64	87	59	92	65	95	65	96	71	86	69	89	74	90	69	89	64	98	69	90	65
Wellsboro, .....	85	54	84	56	90	66	92	66	96	66	86	68	90	62	87	65	92	62	93	62	88	65
West Chester, .....	86	69	86	70	88	68	96	68	87	67	91	70	86	70	84	68	88	68	92	70	89	71
Westtown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	84	56	88	62	90	60	88	60	90	64	90	60	90	64	86	66	89	53	94	56	89	71
Wilkes-Barre, .....	88	60	89	54	94	66	92	66	96	67	95	68	96	66	91	69	97	61	99	65	96	73
Williamsport, .....	83	65	83	62	90	66	89	66	92	69	89	71	91	66	84	70	90	64	93	66	90	67
York, .....	84	67	90	66	92	69	89	69	92	67	96	66	92	72	89	69	92	66	94	64	92	67

Maximum and Minimum Temperatures for Pennsylvania, July, 1987—Continued.

Stations.	12.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	73	60	80	56	76	56	80	56	84	52	80	63	80	66	78	66	84	62	80	67	88	61
Aqueduct, .....	82	69	87	68	89	63	88	64	92	66	87	67	86	65	87	65	82	69	85	68	92	67
Blooming Grove, .....	80	69	89	62	90	60	81	53	84	63	82	61	71	61	81	61	77	61	80	60	84	65
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cannonsburg, .....	82	67	80	63	71	57	82	57	82	60	83	60	83	67	80	64	84	65	81	69	85	65
Carlisle, .....	88	72	86	65	84	63	86	57	89	57	82	64	78	69	83	68	82	66	85	69	90	68
Cassandra, .....	70	64	74	56	71	52	77	52	80	51	75	62	78	65	77	65	81	61	79	67	82	60
Centre Hall, .....	73	65	77	61	76	61	76	57	81	56	77	63	73	66	72	64	77	66	78	65	81	62
Chambersburg, .....	78	68	85	61	84	59	88	52	88	54	83	64	81	66	82	64	84	66	72	68	88	66
Coatesville, .....	87	68	79	70	88	64	88	57	89	58	83	67	75	67	85	63	84	66	84	69	91	69
Confuence, .....	88	65	72	59	78	53	79	53	84	54	82	56	88	60	85	61	86	62	87	63	80	66
Coopersburg, .....	84	68	74	70	82	65	83	61	85	61	82	67	73	68	79	67	75	63	82	68	85	69
Derry Station, .....	88	67	80	59	82	53	74	54	79	52	89	54	80	64	85	66	86	63	89	63	80	62
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	81	62	71	62	85	55	90	55	90	60	85	65	75	63	87	64	90	63	84	65	90	66
Dushore, .....	77	63	79	61	80	57	82	46	88	51	81	59	85	62	81	63	81	58	87	64	85	65
Dyberry, .....	78	64	74	62	86	58	80	60	85	50	82	60	72	60	77	62	80	63	78	64	86	67
Easton, .....	85	70	76	70	82	65	83	60	87	60	83	63	80	66	83	67	79	68	84	67	85	69
Emporium, .....	73	61	80	60	77	60	80	55	85	55	76	64	81	66	78	65	80	65	82	65	85	62
Erie, .....	74	63	78	60	73	59	79	61	81	66	78	66	75	64	81	65	84	66	84	68	87	65
Everett, .....	72	65	73	58	75	56	81	54	81	53	80	63	79	64	80	65	81	62	78	67	86	61
Franklin, .....	78	63	80	57	75	54	85	55	83	57	73	62	82	64	79	64	87	64	81	64	89	61
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grampian, .....	70	64	76	60	76	60	78	58	82	56	78	64	78	64	74	68	84	64	78	68	82	64
Greensboro, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greenville, .....	74	61	70	53	68	50	80	53	80	60	70	62	81	49	79	63	79	62	79	65	80	61
Hallstead, .....	72	67	72	63	.....	.....	92	54	84	54	81	60	88	65	80	60	83	63	85	61	91	67
Hamburg, .....	85	68	80	68	86	64	87	53	90	58	83	67	74	65	81	67	80	68	85	69	89	70
Hamlington, .....	78	68	71	66	78	64	77	59	82	60	77	66	72	65	76	65	76	65	78	65	78	68
Harrisburg, .....	79	71	84	68	81	66	85	61	86	61	81	66	77	70	80	66	83	70	80	60	88	68
Holidaysburg, .....	75	65	82	56	73	55	81	55	89	51	88	63	82	64	80	65	88	62	82	68	89	69

Honedale, .....	76	65	83	64	84	66	86	50	88	52	.....	.....	.....	81	70	85	63	86	65	90	62
Huntingdon, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Indiana, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown, .....	75	65	80	60	75	55	83	53	85	55	77	61	83	65	78	64	87	63	81	88	64
Kennett Square, .....	89	69	77	69	83	65	86	58	89	59	80	67	74	69	80	66	81	64	83	88	68
Lancaster, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	71	61	81	65	53	61	87	51	88	55	86	60	84	65	84	66	87	64	87	92	68
Lebanon, .....	82	68	82	66	84	64	85	56	87	59	80	68	75	69	81	66	82	67	82	89	69
Le Roy, .....	78	60	77	57	82	60	80	54	84	60	81	63	82	62	81	63	82	65	83	85	65
Lewisburg, .....	77	67	86	64	84	63	86	64	89	58	82	66	82	67	86	63	82	67	85	90	67
Lock Haven, .....	74	63	86	60	85	61	85	64	91	58	83	64	83	67	77	66	87	65	86	91	64
Lycippus, .....	90	65	76	60	77	56	76	57	84	61	88	65	83	62	86	65	84	65	89	79	65
Mauch Chunk, .....	83	65	75	65	85	61	86	54	90	64	81	63	73	64	86	66	79	63	80	91	69
Philadelphia (a), .....	90	71	77	71	85	63	87	64	89	71	81	71	76	70	81	69	78	69	83	88	71
Philadelphia (b), .....	89	72	77	71	83	63	85	62	88	69	81	72	75	70	79	69	78	70	89	89	70
Pittsburgh, .....	80	64	77	61	73	59	83	60	85	64	76	65	85	64	77	67	87	66	89	86	66
Pottstown, .....	89	71	77	71	86	66	84	60	88	60	84	70	76	70	84	70	82	70	84	88	70
Quakertown, .....	87	64	75	68	85	61	84	54	88	55	84	64	76	65	81	64	76	65	84	87	66
Renova, .....	73	66	82	60	80	61	83	55	87	53	81	63	82	67	75	66	82	64	83	88	63
Saegertown, .....	76	60	80	52	77	49	82	46	86	56	80	60	80	53	80	60	85	61	84	86	52
Scranton, .....	79	66	72	62	83	63	83	56	86	55	82	57	75	65	83	63	76	64	89	89	68
Sellsgrove, .....	86	64	84	65	83	63	84	54	89	57	87	57	83	65	88	68	89	71	87	90	65
Shingle House, .....	86	60	80	53	81	55	79	43	84	56	81	50	82	60	83	60	80	58	85	87	53
Skippack, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Smethport, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Somerset, .....	72	60	63	52	74	55	76	52	74	56	78	58	80	65	78	62	80	60	76	78	62
South Bethlehem, .....	89	68	82	61	84	60	90	68	88	70	82	67	88	70	88	71	87	72	69	92	72
South Eaton, .....	77	66	74	64	80	62	81	62	85	63	80	64	77	65	80	68	77	63	81	77	67
State College, .....	72	65	79	59	70	59	80	55	84	54	78	63	79	66	75	61	80	64	79	85	62
St. Marys, .....	69	63	79	54	74	57	80	50	81	52	73	60	81	63	74	62	81	60	80	85	58
Swarthmore, .....	88	73	78	73	85	62	85	64	87	72	80	71	77	71	80	71	80	70	81	.....	.....
Swiftwater, .....	79	68	70	65	79	65	77	56	80	55	78	60	71	61	75	63	73	63	75	73	68
Towanda, .....	74	65	90	63	82	60	83	51	85	55	81	61	81	65	83	65	83	66	84	89	66
Unlontown, .....	78	60	75	57	69	54	83	54	83	64	74	62	84	61	79	65	86	61	77	86	64
Warren, .....	71	63	79	54	73	57	77	51	83	54	77	62	78	63	78	63	82	64	83	84	58
Wellsboro, .....	70	63	78	54	82	52	83	52	86	56	82	60	84	64	75	65	84	62	82	86	63
West Chester, .....	87	70	75	71	83	66	82	59	86	65	80	70	73	70	78	67	77	67	78	89	69
Westtown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	84	64	71	61	81	60	82	54	84	56	81	62	72	64	76	62	75	66	65	85	66
Wilkes-Barre, .....	91	67	77	64	86	60	86	56	92	56	86	65	78	66	86	66	80	66	65	91	67
Williamsport, .....	73	64	82	62	79	64	81	57	85	63	78	56	74	68	78	67	79	68	69	86	66
York, .....	84	69	82	67	84	64	84	56	87	61	83	67	81	69	82	68	83	68	68	89	70

Maximum and Minimum Temperatures for Pennsylvania, July, 1897, Continued.

Stations.	22.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	82	62	84	61	83	64	84	59	67	62	76	61	74	55	85	58	86	60	83.6	61.6
Aqueduct, .....	93	70	85	63	92	67	82	69	69	61	75	62	77	57	87	59	90	68	83.9	67.0
Blooming Grove, .....	81	63	73	59	82	60	65	58	58	52	60	53	67	56	77	56	79	59	81.0	60.2
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cannonsburg, .....	83	68	84	64	83	68	81	63	80	63	79	65	82	60	.....	.....	85	69	85.4	66.2
Carlisle, .....	90	66	84	64	90	65	79	64	85	62	71	62	77	57	88	60	91	67	86.7	65.2
Cassandra, .....	77	61	78	60	78	60	79	58	70	62	72	62	70	54	80	52	80	60	79.9	61.0
Centre Hall, .....	78	61	74	61	81	63	79	61	66	58	72	59	69	56	79	59	80	57	78.8	62.3
Chambersburg, .....	89	66	86	65	88	64	83	62	70	62	78	61	78	55	87	57	87	61	85.2	62.8
Coatesville, .....	90	66	86	63	91	64	74	64	66	63	70	62	83	59	88	59	91	65	86.4	65.0
Confluence, .....	88	62	87	63	88	64	87	60	84	66	83	65	79	58	86	53	86	59	87.1	61.6
Coopersburg, .....	85	69	77	65	83	67	74	63	65	60	65	60	75	62	81	62	84	66	81.8	65.9
Derry Station, .....	90	62	83	60	77	64	75	61	84	63	82	64	80	60	79	55	88	67	87.4	63.6
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	85	62	76	61	81	63	70	54	64	54	66	56	70	59	86	58	84	56	85.4	61.3
Dushore, .....	81	61	76	57	82	61	81	60	68	53	72	58	75	53	81	56	80	54	83.6	58.8
Dyberry, .....	83	58	74	56	82	63	67	60	60	53	59	53	70	58	78	57	81	58	81.2	59.3
Easton, .....	88	67	78	64	84	65	70	64	64	60	65	60	75	61	82	62	83	64	83.2	65.6
Emporium, .....	80	62	76	64	83	62	83	64	71	63	74	61	70	57	83	59	80	60	82.4	62.7
Erie, .....	73	65	71	64	78	64	76	66	74	66	70	61	71	60	81	60	75	64	80.0	66.1
Everett, .....	83	64	81	61	80	60	83	59	69	59	76	62	77	57	84	55	83	60	81.6	61.5
Franklin, .....	80	61	79	59	85	63	82	61	74	66	75	62	71	57	86	53	81	60	84.9	62.1
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grampian, .....	80	64	80	60	74	62	76	64	68	63	70	62	70	60	80	58	80	66	81.0	64.4
Greensboro, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greenville, .....	76	61	78	59	81	59	80	60	73	67	73	61	72	57	82	52	76	61	81.2	60.5
Hallstead, .....	82	64	72	59	82	67	71	63	65	57	64	56	70	59	84	62	79	57	82.9	61.5
Hamburg, .....	90	66	80	65	88	69	70	68	63	59	68	60	76	61	85	63	88	67	86.0	65.7
Hamlington, .....	82	66	71	62	76	65	72	60	60	55	60	54	67	59	62	57	75	61	77.7	63.7
Harrisburg, .....	88	69	81	67	86	70	75	64	66	62	70	62	75	59	86	65	87	69	83.7	67.3
Hollidaysburg, .....	84	63	84	59	85	61	85	59	69	61	87	61	76	50	88	57	88	58	80.5	60.5

Honesdale, .....	86	60	84	60	86	58	84	58	69	61	78	61	77	53	88	55	88	60	86.3	61.4
Huntingdon, .....																				
Indiana, .....																				
Irwin, .....																				
Johnstown, .....	85	63	83	63	83	63	85	61	77	65	77	61	77	57	86	53	86	64	85.4	63.2
Kennett Square, .....	88	68	83	65	88	65	85	64	68	62	70	63	81	59	89	61	89	65	84.4	65.3
Lancaster, .....																				
Lawrenceville, .....	79	65	82	61	84	64	84	66	70	60	71	61	69	55	82	64	82	56	85.9	62.2
Lebanon, .....	90	66	91	65	89	62	75	63	65	61	67	61	75	57	88	60	88	65	85.4	64.7
Le Roy, .....	83	61	77	60	80	64	79	63	66	54	75	55	73	54	81	56	81	57	82.1	61.7
Lewisburg, .....	82	64	78	65	87	64	76	65	67	58	69	61	74	53	85	59	85	61	84.8	64.7
Lock Haven, .....	88	62	80	62	88	63	80	60	76	56	74	51	75	41	84	41	84	52	86.9	61.8
Lycippus, .....	85	63	83	62	83	61	84	66	87	67	81	62	81	60	84	59	84	68	86.1	65.9
Mauch Chunk, .....	86	62	78	61	87	65	69	63	63	57	67	58	75	57	86	59	86	62	85.0	62.3
Philadelphia (a), .....	89	63	81	68	88	70	70	64	66	63	68	63	79	64	83	65	88	69	84.1	63.6
Philadelphia (b), .....	90	63	83	66	89	63	78	65	66	63	69	63	79	63	88	64	88	68	84.6	63.4
Pittsburgh, .....	82	68	84	66	84	64	80	70	80	69	78	66	80	62	87	61	85	70	85.0	67.0
Pottstown, .....	90	70	80	66	88	66	72	62	65	63	70	62	77	61	84	62	87	67	85.1	67.4
Quakertown, .....																				
Renova, .....	80	62	77	64	85	65	84	63	70	61										
Saegerstown, .....	80	60	77	55	84	58	85	55	76	64	75	62	73	55	85	57	83	68	83.8	63.4
Scranton, .....	89	63	78	63	80	67	73	63	69	51	71	57	72	52	86	46	80	54	85.2	57.0
Selinsgrove, .....	85	60	89	62	91	61	76	60	71	68	65	51	78	62	81	60	83	61	83.5	61.4
Shingle House, .....																				
Skippack, .....	80	59	77	60	86	60	88	61	70	58	75	58	80	50	84	52	90	60	85.3	57.3
Smethport, .....																				
Somerset, .....	80	60	79	59	78	58	79	59	76	58	72	59	76	54	79	52	76	59	80.8	59.8
South Bethlehem, .....	94	73	78	63	72	61	70	59	69	61	72	60	76	62	82	63	85	70	85.5	67.1
South Eaton, .....	82	66	76	60	82	67	75	64	65	57	65	57	67	59	80	61	78	68	80.4	63.6
State College, .....	81	58	77	61	81	60	80	62	65	60	74	59	72	55	82	55	81	59	81.2	61.8
St. Marys, .....	75	64	73	59	80	60	80	59	65	59	74	59	68	54	82	57	75	55	80.7	59.6
Swarthmore, .....	80	68	80	68	87	70	70	64	65	63	71	64	79	64	83	70	87	63	83.7	69.0
Swiftwater, .....	75	63	80	65	80	61	73	60	79	62	64	60	62	55	76	63	77	56	78.2	60.8
Towanda, .....	82	60	77	61	81	64	77	64	66	65	64	58	69	57	84	60	81	57	83.3	61.8
Uniontown, .....	82	61	83	62	81	60	85	62	81	65	78	63	80	60	81	56	82	66	83.6	63.4
Warren, .....	76	62	73	61	81	65	83	59	74	62	70	60	69	56	82	55	77	65	81.9	62.0
Wellsboro, .....	78	64	73	56	86	60	82	60	65	54	70	52	68	52	84	54	80	56	82.6	59.4
West Chester, .....	87	68	78	65	85	66	76	65	66	62	68	63	77	60	82	61	87	67	82.4	67.1
Westtown, .....																				
White Haven, .....	84	62	74	61	80	62	67	60	61	55	62	59	72	58	81	58	82	59	80.9	60.7
Wilkes-Barre, .....	89	67	88	62	85	70	73	54	68	56	72	58	74	58	83	59	82	60	86.6	62.9
Williamsport, .....	78	65	75	64	85	65	75	67	67	58	67	60	71	58	83	58	82	61	81.7	64.4
York, .....	90	68	85	62	89	63	75	64	67	63	70	64	79	59	86	68	89	66	85.6	65.5



Maximum and Minimum Temperatures for Pennsylvania, July, 1897, Continued.

Stations.	22.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	82	62	84	61	83	64	84	59	87	62	76	61	74	55	85	53	86	60	83.6	61.6
Aqueduct, .....	93	70	85	63	92	67	82	69	89	61	75	62	77	57	87	59	90	66	88.9	67.0
Blooming Grove, .....	81	63	73	59	82	60	65	58	53	52	60	52	67	56	77	56	79	59	81.0	60.2
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cannonsburg, .....	83	68	84	64	83	66	81	68	80	63	79	65	82	60	88	.....	85	69	85.4	66.2
Carlisle, .....	90	66	84	64	90	65	79	64	65	62	71	62	77	57	88	60	91	67	86.7	65.2
Cassandra, .....	77	61	78	60	78	60	79	53	70	62	72	62	70	54	80	52	80	60	79.9	61.0
Centre Hall, .....	78	61	74	61	81	63	79	61	66	53	72	59	69	56	79	59	80	57	78.8	62.3
Chambersburg, .....	89	66	86	65	88	64	83	62	70	62	78	61	78	55	87	57	87	61	85.2	62.8
Coatesville, .....	90	66	86	63	91	64	74	64	66	63	70	62	83	59	88	59	91	65	86.4	65.0
Confluence, .....	88	62	87	63	88	64	87	60	84	66	83	65	79	58	86	53	86	59	87.1	61.6
Coopersburg, .....	85	69	77	65	83	67	74	63	65	60	65	60	75	62	81	62	84	66	81.8	65.9
Derry Station, .....	90	62	83	60	77	64	75	61	84	68	82	64	80	60	79	55	88	67	87.4	63.6
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	85	62	76	61	81	63	70	54	64	54	66	56	70	59	86	53	84	56	85.4	61.3
Dushore, .....	81	61	76	57	82	61	81	60	63	58	72	53	75	53	81	56	80	54	83.6	58.8
Dyberry, .....	82	58	74	56	82	63	67	60	60	53	59	53	70	58	78	57	81	58	81.2	59.3
Easton, .....	83	67	78	64	84	65	70	64	64	60	65	60	75	61	82	62	83	64	83.2	65.6
Emporium, .....	90	62	76	64	83	62	83	64	71	63	74	61	70	57	83	59	80	60	82.4	62.7
Erle, .....	73	65	71	64	78	64	76	66	74	66	70	61	71	60	81	60	75	64	80.0	66.1
Everett, .....	83	64	81	61	80	60	83	59	69	59	76	62	77	57	84	55	83	60	81.6	61.5
Franklin, .....	80	61	79	59	85	63	82	61	74	66	75	62	71	57	86	53	81	60	84.9	62.1
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grampian, .....	80	64	80	60	74	62	76	64	68	62	70	62	70	60	80	53	80	66	81.0	64.4
Greensboro, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Greenville, .....	76	61	78	59	81	59	80	60	73	67	73	61	72	57	82	52	76	61	81.2	60.5
Hallstead, .....	82	64	72	59	82	67	71	63	65	57	64	56	70	59	84	62	79	57	82.9	61.5
Hamburg, .....	90	66	80	65	88	69	70	68	63	59	68	60	76	61	85	63	88	67	86.0	65.7
Hamlington, .....	82	66	71	62	76	65	72	60	60	55	60	54	67	59	82	57	75	61	77.7	63.7
Harrisburg, .....	88	69	81	67	86	70	75	64	66	62	70	62	75	59	86	65	87	69	83.7	67.3
Holidaysburg, .....	84	63	84	59	85	61	85	59	69	61	87	61	76	50	88	57	88	58	80.5	60.5

Honesdale, .....	86	60	84	60	86	58	84	58	69	61	78	61	77	58	88	55	88	60	86.3	61.4
Huntingdon, .....																				
Indiana, .....																				
Irwin, .....																				
Johnstown, .....	85	63	83	63	83	63	85	61	77	65	77	61	77	57	87	53	86	64	85.4	63.2
Kennett Square, .....	88	68	82	65	88	65	85	64	68	62	70	63	81	59	85	61	89	65	84.4	65.3
Lancaster, .....																				
Lawrenceville, .....	79	65	82	61	84	64	84	66	70	60	71	61	69	55	83	64	82	56	85.9	62.2
Lebanon, .....	90	66	91	65	89	62	75	63	65	61	67	61	75	57	86	60	88	65	85.4	64.7
Le Roy, .....	83	61	77	60	80	64	79	63	66	54	75	55	73	54	82	56	81	57	82.1	61.7
Lewisburg, .....	82	64	78	65	87	64	76	65	67	58	69	61	74	58	84	59	85	61	84.8	64.7
Lock Haven, .....	88	62	80	62	88	63	80	60	76	56	74	51	75	41	85	41	84	52	86.9	61.8
Lycippus, .....	85	63	83	62	83	61	84	66	87	67	81	62	81	60	77	59	84	63	86.1	65.9
Mauch Chunk, .....	86	62	78	61	87	65	69	63	63	57	67	58	75	57	86	59	86	62	85.0	62.3
Philadelphia (a), .....	89	68	81	68	88	70	70	64	66	63	68	63	79	64	83	65	88	69	84.1	68.6
Philadelphia (b), .....	90	68	83	66	89	68	78	65	66	63	69	63	79	63	83	64	88	68	84.6	68.4
Pittsburgh, .....	82	68	84	66	84	64	80	70	80	69	78	66	80	62	87	61	85	70	85.0	67.0
Pottstown, .....	90	70	80	66	88	66	72	62	65	63	70	62	77	61	84	62	87	67	85.1	67.4
Quakertown, .....																				
Renova, .....	80	62	77	64	85	65	84	63	70	61	75	62	73	55	85	58	86	62	86.3	62.3
Saegertown, .....	80	60	77	55	84	58	85	55	76	64	71	57	72	52	85	46	80	54	85.2	57.0
Scranton, .....	89	63	78	63	80	67	73	63	69	51	65	51	78	62	81	60	83	61	83.5	61.4
Sellingsgrove, .....	85	60	89	62	91	61	76	60	71	63	84	60	87	69	98	67	84	65	86.8	64.4
Shingle House, .....	80	59	77	60	86	60	88	61	70	58	75	58	80	50	84	52	90	60	85.3	57.3
Skippack, .....																				
Smethport, .....																				
Somerset, .....	80	60	79	59	78	58	79	59	76	58	72	59	76	54	79	52	76	59	80.8	59.8
South Bethlehem, .....	94	73	78	63	72	61	70	59	69	61	72	60	76	62	82	63	85	70	85.5	67.1
South Eaton, .....	82	66	76	60	82	67	75	64	65	57	65	57	67	59	80	61	78	68	80.4	63.6
State College, .....	81	58	77	61	81	60	80	62	65	60	74	59	73	55	82	55	81	59	81.2	61.8
St. Marys, .....	75	64	73	59	80	60	80	59	65	59	74	59	68	54	82	57	75	55	80.7	59.6
Swarthmore, .....	80	68	80	68	87	70	70	64	65	63	71	64	79	64	83	70	87	63	83.7	69.0
Swiftwater, .....	75	63	80	65	80	61	73	60	79	62	64	60	62	55	76	63	77	56	78.2	60.8
Towanda, .....	82	60	77	61	81	64	77	64	66	65	64	58	69	57	84	60	81	57	83.3	61.8
Uniontown, .....	82	61	83	62	81	60	85	62	81	65	78	63	80	60	81	56	82	66	83.6	63.4
Warren, .....	76	62	73	61	81	65	83	59	74	62	70	60	69	56	82	55	77	65	81.9	62.0
Wellsboro, .....	78	64	73	56	86	60	82	60	65	54	70	52	68	52	84	54	80	56	82.6	59.4
West Chester, .....	87	63	78	65	85	66	76	65	66	62	68	63	77	60	82	61	87	67	82.4	67.1
Westtown, .....																				
White Haven, .....	84	62	74	61	80	62	67	60	61	55	63	59	72	58	81	58	82	59	80.9	60.7
Wilkes-Barre, .....	89	67	88	62	85	70	73	54	68	56	72	58	74	58	83	59	83	60	86.6	63.9
Williamsport, .....	78	65	75	64	85	65	75	67	67	53	67	60	71	58	83	53	82	61	81.7	64.4
York, .....	90	68	85	62	89	63	75	64	67	63	70	64	79	59	86	68	89	66	85.6	65.3

Daily Precipitation for Pennsylvania, July, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....							.01					1.41				
Blooming Grove, .....		†				1.40	.09				.15	1.00	.22			
Browers' Lock, .....		.03									.03	.16	.10	.17	.28	
Coatesville, .....												.37	.07	.56		
Coopersburg, .....	.01	.01					.12				.06	1.33	.07	.02	.11	
Doylestown, .....							.30				.45	.08	.71		.08	
Dyberry, .....						.06					†	.75	.15			
Easton, .....	.97	†					.75					.98	.09	.08	.01	
Forks of Neshaminy, .....				.01		.05					.14	.14	.50		.40	
Frederick, .....	1.46	.01									.30	2.14	.06		.06	
Hamburg, .....	†						.62				.15	.119	.04			
Hamlington, .....							.78	.03				*	1.38	.07		
Honesdale, .....						.08					*	*	1.41			
Kennett Square, .....		1.03					.30				.14	.79	.07		.03	
Lansdale, .....	.30						.22					.35	.12	.30		
Mauch Chunk, .....							.43				.05	1.16	.19	†		
Ottaville, .....												.49	.25	.09		
Philadelphia (a), .....		.23	†	†			.04				.09	.44	.47	.35		
Philadelphia (b), .....	†	.41				†	.03				.19	.41	.64	.05	.17	
Point Pleasant, .....										.10	.22	.82			.02	
Pottstown, .....	.15						1.25					.40		.10		
Quakertown, .....	†	.05									†	1.77	.04	.05	.10	
Reading, .....	.06										.35	1.48	.07			
Selsholtzville, .....	.09						.17					.39	.08			
Shawmont, .....		.05									.20	.05	.35	.07	.23	
Skippack, .....																
Smiths' Corners, .....												.30	.94	.06		
Swiftwater, .....						.25	.18				†	1.35	.40			
West Chester, .....											.19	.36	.08	.53		
White Haven, .....	.23				†	.10					†	1.30	.13			

Susquehanna Basin.																
Altoona,	.22	.28	.01			.03		.02			.94	.36		.16		†
Aqueduct,						.06		.07			.03	.17		†		
Carlisle,	.41							.04								
Centre Hall,	.26					.47		.04				.35				
Drifton,																
Dunmore,						.37		†								
Dushore,		†						.12			.13	.23		†		
Emporium,			.64		†			.25			†	1.09		†		.02
Everett,	.59		†					1.20			.60	.20		†		.20
Gettysburg,																
Girardville,						.14		.32				2.00				
Gramplan,		.04				.45		.10			.94	.13		.06		.16
Hallstead a,						†						.15		†		
Harrisburg,	.14											.30		.13		
Holidaysburg,	.41	.14						.04			.01	.26		.08		
Huntingdon,	.11	.15						.21			.11	.29		.04		
Lawrenceville,		†				.14					.20	.70		.10	†	
Lebanon,		†						.08			.28	1.43		.08		
Le Roy,		.02									.07	.76				
Lewisburg,	.49					.31		.04				.27				
Lock Haven,	1.04					.63			.25		.16	.48				
Renova,	.06	†				†		.03			.04	1.03		†		
Scranton,						.10						.51				
Selinsgrove,	.45	.57				.10					.26	.22		.47		
South Eaton,						.25					.14	.22				
State College,	.25	†						.06	.03		.01	.32		.13		.07
Towanda,		†						.59			.01	.64		.06		
Wellsboro,											1.00	1.20		†		
Wilkes-Barre,						.14					.10	.65				
Williamsport,	.04					.47		.03			.86	.34		.08		
York,	.03	†									.42	.91		.27		
Ohio Basin.																
Beaver Dam,					.12	.44				.07		.44			.41	
Brookville,	.04	.01						.02				.03				
Cannonsburg,					.04						.04	.06		.02		
Cassandra,	.26	†			.06	†		.02			.76	.34		†		†
Confluence,				.04	.03	.24		.18	.42			.52			.13	
Davis Island Dam,						1.64						1.07			.09	
Derry Station,						.13		.39				.23		.08		
Du Bois,			.37			.42		.08	.07			.55			.08	
Elwood Junction,					.67	.19				†		2.00		.23		

Daily Precipitation for Pennsylvania, July, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Franklin, .....											.92	.57		†		†
Freeport, .....						.40						.65	.20		.23	
Greensboro, .....	†				†	.75	.07				1.00	.38		.20		†
Greenville, .....						1.80		†				1.13	†	.20		.22
Indiana, .....																
Irwin, .....					.26	1.92					.48			.15		†
Johnstown, .....	.02	.04			.14	1.10						.65	.36			
Lock No. 4, .....						†	.25					.73	.02			
Lycippus, .....	.03				.78	.10					.19	.14		.08		.02
Oil City, .....						.40						2.19	.06		†	
Parkers' Landing, .....	†	†										.94	.03	.14		
Pittsburgh, .....				.70	.09						.83	.40	.06	.13	†	†
Ridgway, .....				.04		1.48						1.63	.36			
Saegerstown, .....						1.55			.05		3.05	.14				
Shingle House, .....		†			1.05							.23		.40		
Smethport, .....																
Somerseset, .....					.15	.30					.78	.11				.15
St. Marys, .....		.12		.23			.24				.47	1.32	.01	.07		.12
Uniontown, .....					.30		.03				.92	.64		.20		.77
Warren, .....						1.56					.43	.41	†			
West Newton, .....						.52	.87					.43	.08		†	
Potomac Basin.																
Chambersburg, .....	.03	.12	.04								.11	.02				
Lake Basin.																
Erle, .....						.19					†	.15	.07	.01		

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

Daily Precipitation for Pennsylvania, July, 1897—Continued.

Stations.	Day of Month.																Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.		
Delaware Basin.																	
Bethlehem, .....		.98	.04	.05	.27	.08	.76				.70	.54				4.84	
Blooming Grove, .....		.55			1.08	†	.47	.25	.12		1.05	1.90	.37	.14		9.39	
Browsers' Lock, .....	.08	.15	.75	.27	.35	1.23	.52				2.28	.78				7.13	
Coatesville, .....	.11		.13	.25	.98	1.50	.28				2.00	.22				6.47	
Coopersburg, .....		.60	.09	.02	.48	.89	.87			.02	1.10	.63				6.48	
Doylestown, .....	†	.42	.53	.58	1.20	1.33	.42		†	†	1.34	.67				8.11	
Dyberry, .....	†	.10	†	†	.10	.09	.07	.13	†	.90	1.74	1.73	.08	.05	.08	6.03	
Easton, .....	†	1.35	.05	.01	.10	.36	.58		.93	†	.66	1.12	†			8.04	
Forks of Neshaminy, .....	.03	1.03	.35	1.61	1.20	3.33	1.03		.12	.04	1.00	1.44				12.42	
Frederick, .....	.04	.99	.31	.04	.40	1.10	.86		.01		1.19	1.00				9.97	
Hamburg, .....		2.60	.33	.28	.06	†	.61	†	.06	†	1.00	.05				6.99	
Hamlington, .....		.37		.04		.46	.05	.23	.20	.12	.68	1.28	.49	.20	.26	6.64	
Honesdale, .....	.08				.17		.11	.18	.13	*	*	*	3.23	.46		5.84	
Kennett Square, .....	.04	.13	.49	.18	.68	3.25	.05				2.65	.30			.05	10.16	
Lansdale, .....		.24	.36	.45	.38	1.58	.92				1.27	.68				7.17	
Mauch Chunk, .....	†	1.43		.15	.67	1.45	1.13				.85	.82				8.33	
Ottsville, .....		1.46		.80	.84	.21	.49				1.00	1.19				6.82	
Philadelphia (a), .....	.02	.19	.31	.41	.66	.79	.57	.01	†		1.80	1.32			†	7.70	
Philadelphia (b), .....	.05	.23	.56	.35	1.09	1.36	1.01	†	†	†	2.11	1.59	†		†	10.25	
Point Pleasant, .....	.08	2.99	.31	.29	.38	.27	.79		.24		1.19	1.06				8.76	
Pottstown, .....		.20		.10	.25	.22	.17				2.80	.63				6.27	
Quakertown, .....	.03	1.35	.12	.04	.38	1.12	*	*	*	*	*	*	3.01			8.06	
Reading, .....	.01	.25	.31	.02	.01	.02	.01	.02			2.51	.64				5.77	
Seisholtzville, .....		1.29	.21	.50	.12	.02	.27				1.76	.71				5.61	
Shawmont, .....	.02	.18	.73	.15	1.91	3.05	1.07				2.09	1.30				11.45	
Skippack, .....																	
Smiths' Corners, .....		3.89	.42	.38	.40	.69	.36		.51	.09	1.15	.96				10.22	
Swiftwater, .....		.70		.12	4.50	1.12	.18	.10		†	1.60	2.10	.10	.40		13.10	
West Chester, .....	.03	.27	.33	.30	.99	3.24	.54				2.10	.95				9.91	
White Haven, .....	†	.30	.02	.02	.77	.45	1.25	.08	.04	.02	1.45	.17	.08	.04	.03	6.49	

Daily Precipitation for Pennsylvania, July, 1897—Continued.

Stations.	Day of Month.															Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	
Susquehanna Basin.																
Altoona, .....	.08	.01	.02	.14	.20	.03	.40	.....	.....	.44	.29	.40	.08	.....	.....	3.98
Aqueduct, .....	1.20	.29	.03	.....	.28	.18	.....	.....	.....	†	.64	.48	†	.....	.....	3.78
Carlisle, .....	.....	.....	.....	1.70	.....	.....	.....	.....	.....	.03	1.60	.65	.....	.....	.....	4.42
Centre Hall, .....	.....	.32	.39	.13	.39	.60	.....	.....	.....	.86	.86	.13	.16	.....	.....	4.96
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	.....	.16	.....	.....	.15	.....	.....	.32	.20	.....	1.34	.10	.36	.62	.....	4.17
Dushore, .....	†	.....	.04	.....	.54	.04	.46	†	.06	.....	1.35	.06	.06	.....	.55	3.63
Emporium, .....	.20	.08	.10	.35	.33	.15	.30	†	.....	.34	.64	.17	†	.62	.....	5.28
Everett, .....	.01	†	†	†	.21	.....	.32	.....	.....	.10	.41	.78	†	.....	.40	5.02
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Girardville, .....	.....	.58	.31	.27	.14	.10	.21	.04	.08	.04	.94	.26	.....	.....	.....	5.58
Gramplan, .....	.04	.03	.44	.24	.41	.....	.85	.10	.....	.75	.77	1.00	.11	.....	.40	7.02
Hallstead a, .....	.....	.....	†	.....	.....	.....	1.52	.19	.....	.06	.....	1.81	.....	.16	.....	3.89
Harrisburg, .....	.17	.01	.18	†	.39	.10	†	.....	.....	†	1.56	.69	†	.....	.....	3.68
Holidaysburg, .....	.05	.21	.02	.08	.46	.07	.30	.....	.....	.28	.54	.55	.....	.....	.....	4.07
Huntingdon, .....	.41	.....	.02	.....	.10	.....	.34	.06	.....	.12	.62	.55	.....	.....	.....	3.13
Lawrenceville, .....	.06	.07	.....	.49	.11	.30	.29	.....	.33	.10	.90	.32	.12	.04	.....	4.27
Lebanon, .....	.04	.26	.26	.....	.61	.02	.....	.....	.....	.....	1.88	.70	†	.....	.....	5.89
Le Roy, .....	.....	.44	.....	.....	.06	.....	.40	.....	.17	.01	1.43	.12	.10	.06	.32	3.95
Lewisburg, .....	.....	.28	.10	.....	.....	.20	.48	.....	.12	.06	1.98	.40	.....	.....	.....	4.73
Lock Haven, .....	.04	.70	.28	.01	.25	.35	.30	.....	.....	.....	1.04	.03	.....	.....	.04	5.65
Renova, .....	.02	.74	.20	†	.01	.12	1.12	.02	.....	.13	.51	.22	.....	.....	.51	4.80
Scranton, .....	.12	.16	.....	.....	.....	.62	.03	.33	.26	.....	1.13	.23	.16	.....	1.25	5.00
Selinsgrove, .....	.17	.....	.42	.....	.....	.....	.....	.....	.....	.80	1.25	.37	.....	.....	.....	5.08
South Eaton, .....	.....	.....	.....	.....	†	.....	.20	.16	.....	†	1.51	.56	.14	.....	.....	3.38
State College, .....	.08	.36	1.06	.03	.33	.12	.43	.....	.....	.13	1.19	.68	.....	.....	.41	5.69
Towanda, .....	†	.08	†	.....	†	.09	.67	.17	.16	.12	1.22	.44	.13	.04	.39	4.81
Wellsboro, .....	.20	†	.....	.....	.20	.25	.04	†	.50	.....	1.75	.04	.08	†	.20	5.46
Wilkes-Barre, .....	.....	.....	.....	.24	.....	.....	.....	.32	.36	.73	.90	.32	.....	.....	.....	3.76
Williamsport, .....	.04	.....	.30	.....	.40	.37	.....	.25	.04	.08	.....	1.23	.....	.....	.29	4.77
York, .....	.06	.07	.....	.....	.12	.....	.06	†	.....	†	1.36	.39	†	.....	.....	3.69

Ohio Basin.														
Beaver Dam, .....	.16	.....	.....	1.64	.....	.33	.09	.....	.....	.....	.81	.18	.....	4.40
Brookville, .....	.25	.11	.73	.18	5.20	.02	.74	.06	.....	.20	.12	.36	.....	9.97
Cannonsburg, .....	.60	.03	.62	.....	.21	.....	.06	.....	.....	†	.42	.....	.....	2.10
Cassandra, .....	†	.02	.36	.02	.34	.45	.05	.....	.....	.13	.05	.58	†	3.44
Confluence, .....	.23	.29	.06	.84	.....	.56	1.36	.....	.....	.....	.74	.54	.15	6.46
Davis Island Dam, .....	†	.70	1.05	.63	.....	.20	.23	.....	†	.....	.03	.41	.02	6.31
Derry Station, .....	.57	.99	.63	.....	.09	1.53	.....	.....	.....	.....	.07	.29	.....	4.99
Du Bois, .....	.....	.....	.....	.72	.42	.80	.65	.07	.....	.....	.98	.65	.01	6.57
Elwood Junction, .....	1.40	.33	.73	1.01	.33	.....	2.31	.....	.....	.....	.98	.10	.....	10.94
Franklin, .....	.....	.13	.72	.....	.....	2.01	.21	.....	.....	†	1.04	.....	.....	5.74
Freeport, .....	.35	.51	.72	1.73	.....	.05	1.95	.....	.....	.....	.30	.96	.03	8.08
Greensboro, .....	.65	.....	.20	†	.15	.....	.05	.....	.....	.....	.....	.40	.12	4.42
Greenville, .....	†	.33	1.33	†	.16	2.11	.....	.....	.....	.83	†	†	.....	8.16
Indiana, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	.60	.22	.52	†	.49	.59	.....	.....	.....	.07	.19	†	.....	5.39
Johnstown, .....	.06	.04	.13	.40	.....	.75	.15	.40	.....	.....	.67	.66	.35	5.97
Lock No. 4, .....	.09	1.05	.03	.25	.....	.23	.80	.....	.....	.....	.10	.12	.....	3.72
Lycippus, .....	.21	.13	.25	.02	.19	.13	.....	.....	.....	.16	.39	.....	.....	2.82
Oil City, .....	.02	.11	1.37	.17	.....	.20	1.30	.10	.....	.....	.40	1.33	.03	7.97
Parkers' Landing, .....	.04	.11	.23	.51	1.39	.08	1.31	.....	.....	.....	.94	.87	†	7.23
Pittsburgh, .....	.29	.76	.24	.36	.30	†	.12	.....	.....	.....	.14	.05	.....	4.52
Ridgway, .....	.....	.03	.15	.....	.39	.32	.81	.15	.....	.05	.16	.05	.....	6.70
Saegerstown, .....	.15	5.66	.59	.27	†	.....	1.10	.13	.....	.23	.74	.15	.04	14.51
Shingle House, .....	.....	.....	.....	1.14	.20	.40	.90	.....	.....	.....	.45	.15	.20	5.12
Smethport, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Somerset, .....	.74	.....	.60	.25	.35	.23	.....	.....	.....	.25	.35	.....	.....	4.39
St. Marys, .....	†	*	.72	.13	.05	.72	.08	.01	.....	*	1.42	.20	.....	5.91
Uniontown, .....	.23	.05	.09	†	†	.....	2.31	.....	.....	.69	.17	.38	†	6.83
Warren, .....	†	1.40	.14	†	.25	†	.81	†	.....	†	.25	.01	†	6.15
West Newton, .....	.08	.78	.32	.12	.....	.20	.04	.....	.....	.....	.78	.21	.03	4.51
Potomac Basin.														
Chambersburg, .....	.37	.42	.92	.....	.65	.....	.....	.....	.....	.30	.66	.63	.....	4.32
Lake Basin.														
Erie, .....	.03	1.55	.30	.20	.02	.20	.16	.....	.....	1.13	.91	†	.03	5.81

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.



## AUGUST, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 30.00 inches, is .02 below the normal. At the United States Weather Bureau stations the highest observed was 30.30 inches, at Pittsburgh, on the 6th, and the lowest, 29.68 inches, at Philadelphia, on the 11th, and Pittsburgh, on the 10th.

### Temperature.

The means of the daily maximum and minimum temperatures, 79.5 degrees and 56.3 degrees respectively, give a monthly mean of 67.9 degrees, which is 1.4 degrees below the normal, and 3.3 degrees below the corresponding month of 1896.

The average daily range was 23.2 degrees.

The highest monthly mean was 74.3 degrees, at Philadelphia, Weather Bureau.

The lowest monthly mean was 62.7 degrees, at Shingle House.

The highest temperature recorded during the month was 97 degrees, on the 4th, at Greensboro.

The lowest temperature was 34 degrees, on the 18th, at Lock Haven.

The greatest local monthly range was 60 degrees, at Lock Haven.

The least local monthly range was 28 degrees, at Philadelphia, Weather Bureau.

The greatest daily range was 51 degrees at Lock Haven.

### Precipitation.

The average precipitation for the month, 3.17 inches, is 0.78 inches less than the normal.

The largest totals of rainfall, in inches, were: Swiftwater, 8.60; Saegerstown, 6.63; Chambersburg, 6.02; Williamsport, 5.83; Ham-linton, 5.51; Carlisle, 5.12. The least were: Cannonsburg, 0.34; Davis Island Dam, 1.52; Beaver Dam, 1.55; Lock No. 4, 1.64; Towanda, 1.78; Wellsboro, 1.84.



### Wind and Weather.

The prevailing wind was from the west.

Average number of rainy days, 9; clear, 14; partly cloudy, 11; cloudy, 6.

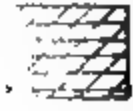


TOTAL PRECIPIT

Scale of Sn  
   
under 2 2 to

ION, AUGUST, 1897.

er in inches.



4 to 6

Over 6



**Miscellaneous Phenomena.**

**Thunderstorms.**—3, 4, 5, 8, 9, 10, 11, 12, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 26.

**Hail.**—Greenville, Derry Station, Pittsburgh, 10th; Hamilton, Scranton, 15th; Everett, 4th; Franklin, 10th and 15th; Somerset, 18th,

**Frost.**—21, 28, 30, 31.

**Solar Halo.**—Harrisburg, 8th, 19th.



Gramplan, .....	1,450	24	66.5	-1.3	92	3	44	31	36	3.46	-1.65	0.66	.....	9	3	17	6	W
Greensboro, .....	768	9	.....	.....	97	4	.....	.....	.....	1.86	-1.63	0.35	.....	9	7	22	2	SW
Greenville, .....	1,000	6	64.0	-1.9	87	4	41	21	34	4.83	+2.42	1.94	.....	11	12	6	13	W
Hallstead a, .....	.....	.....	66.9	.....	88	31	42	21	36	1.86	.....	1.21	.....	4	10	11	9	S
Hamburg, .....	380	7	71.6	-1.2	91	4	50	27	34	4.16	+0.06	1.60	.....	6	8	18	5	NW
Hamlington, .....	1,600	9	67.4	+0.2	86	4	49	21	29	5.51	+1.32	1.47	.....	14	7	9	15	W
Harrisburg, .....	261	9	71.0	-1.0	87	14	55	27	27	3.13	-0.66	1.08	.....	10	13	11	7	W
Holidaysburg d, .....	947	10	67.9	-1.3	92	4	44	27	44	1.96	-1.67	0.81	.....	9	16	10	1	W
Honesdale, .....	1,000	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntingdon, .....	650	10	68.4	-2.2	91	4	41	31	44	3.38	-0.22	1.20	.....	9	17	12	2	W
Indiana, .....	1,350	4	68.0	-1.7	88	5	48	13	31	.....	.....	.....	.....	.....	21	0	10	SW
Irwin, .....	884	.....	.....	.....	.....	.....	.....	.....	.....	2.23	.....	0.55	.....	10	17	9	5	.....
Johnstown, .....	1,184	10	.....	.....	.....	.....	.....	.....	.....	2.23	-1.95	.....	.....	.....	.....	.....	.....	.....
Kennett Square, .....	275	8	71.7	+0.6	89	5	52	27	32	2.77	-2.02	0.92	.....	11	13	9	4	SW
Lancaster, .....	413	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	1,006	.....	66.4	.....	89	5	44	21	42	3.27	.....	0.80	.....	11	15	5	11	W
Lebanon, .....	458	10	70.0	-1.1	89	30	50	27	24	2.51	-2.02	1.25	.....	10	17	11	2	SW
Le Roy, .....	1,400	9	65.2	-2.7	85	3	47	21	31	4.40	+0.53	1.57	.....	11	3	19	9	SW
Lewisburg, .....	450	28	68.8	-1.8	93	4	45	31	37	2.52	-2.66	0.90	.....	6	18	6	7	W
Lock Haven, .....	560	10	65.2	-6.0	94	4	34	18	51	2.32	-2.09	0.98	.....	8	15	12	4	W
Lycippus, .....	1,420	5	69.5	-1.2	91	4	48	31	30	4.52	+2.23	2.13	.....	10	.....	.....	.....	.....
Mauch Chunk, .....	550	8	69.4	-0.2	90	4	46	21	39	2.94	-1.53	0.82	.....	8	18	10	3	W
Philadelphia, .....	117	26	74.3	+0.3	90	3	63	9	23	3.52	-0.68	1.70	.....	9	11	12	7	NW
1529 Centennial Avenue, .....	120	7	73.7	-1.3	89	14	60	21	25	3.27	+0.21	1.51	.....	9	11	13	7	NW
Pittsburgh, .....	842	27	70.5	-2.5	91	3	50	31	29	2.06	-1.10	0.40	.....	13	8	13	5	W
Pottstown, .....	150	10	72.2	-1.2	89	14	54	21	32	2.64	-1.29	1.25	.....	7	24	5	2	W
Quakertown, .....	536	23	69.4	-0.1	87	14	47	21	35	3.43	-0.94	1.14	.....	9	13	9	9	SW
Reading 2, .....	290	24	70.4	-2.4	.....	.....	.....	.....	.....	2.54	-1.43	0.72	.....	10	.....	.....	.....	.....
Renova, .....	672	.....	67.8	.....	90	4	48	31	34	3.79	.....	1.67	.....	10	17	13	1	.....
Saegertown, .....	1,200	6	64.0	-3.8	90	4	38	21	40	6.63	+2.39	2.27	.....	12	7	13	11	NW
Scranton, .....	746	.....	68.0	.....	91	4	40	31	36	2.57	.....	1.10	.....	5	12	15	4	W
Sellsgrove, .....	455	9	69.6	-2.1	90	5	43	29	36	1.83	-3.54	0.60	.....	8	7	16	3	W
Shingle House, .....	1,475	.....	62.7	.....	89	4	38	26	44	2.31	.....	0.75	.....	6	13	10	8	NW
Smethport, .....	1,500	8	63.0	-2.5	88	4	40	31	39	3.25	-1.25	0.90	.....	7	12	11	8	NW
Somerset, .....	2,250	41	63.3	-3.0	86	4	40	31	43	3.11	-0.61	1.30	.....	6	3	20	2	SW
South Bethlehem, .....	339	7	72.6	0	89	15	55	21	31	3.64	-0.35	1.08	.....	6	21	8	2	SE
South Eaton, .....	660	8	66.8	-1.4	86	15	46	21	30	3.23	-0.81	1.60	.....	9	16	12	3	NW
State College, .....	1,191	10	66.0	-2.5	87	4	45	31	32	3.39	-0.99	1.30	.....	10	17	11	3	W
St. Marys, .....	1,740	.....	63.8	.....	88	4	41	26	38	2.54	.....	0.61	.....	9	13	10	8	W
Swarthmore, .....	190	9	72.7	-0.1	90	1	56	30	26	3.24	-1.35	.....	.....	10	4	25	2	NW
Swiftwater, .....	1,600	.....	64.5	.....	81	4	44	31	27	3.60	.....	2.35	.....	8	23	7	1	NW
Towanda, .....	754	.....	66.4	.....	88	4	41	21	37	1.78	.....	0.74	.....	11	16	3	13	W
Uniontown, .....	681	10	63.4	-2.9	91	4	46	31	24	2.15	-2.70	0.68	.....	11	19	10	2	W



Climatological Data for Pennsylvania, August, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing direction of wind.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in twenty-four hours.	Total snowfall (unmelted.)	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
Warren, .....	Warren, .....	1,137	9	63.9	.....	85	4	43	6	35	4.09	-0.69	1.42	.....	10	21	4	6	W
Wellsboro, .....	Tioga, .....	1,327	19	64.7	+0.8	88	4	40	27	38	1.84	-2.29	0.85	.....	7	12	8	11	W
West Chester, .....	Chester, .....	455	43	71.8	+0.1	86	14	56	27	24	2.58	-2.07	0.70	.....	11	19	8	4	W
Westtown, .....	Chester, .....	350	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	Luzerne, .....	1,150	.....	66.0	.....	87	4	43	26	38	3.48	.....	1.05	.....	10	14	15	2	S
Wilkes-Barre, .....	Luzerne, .....	575	13	69.8	+0.7	92	4	47	21	38	2.57	-1.44	0.72	.....	9	16	4	11	SE
Williamsport, .....	Lycoming, .....	530	8	67.1	-1.7	88	1	49	31	30	5.83	-0.81	4.26	.....	8	27	2	2	W
York, .....	York, .....	385	10	70.0	-2.2	89	4	50	8	32	4.04	+0.42	2.76	.....	10	16	13	2	W

\*Extremes of temperature from observed readings of dry thermometers.  
1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4. 2 Mean of 8 a. m. + 8 p. m. ÷ 2.  
The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.  
A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.

Maximum and Minimum Temperatures for Pennsylvania, August, 1897.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.
Altoona, .....	81	52	86	53	89	56	91	65	79	64	79	56	83	49	80	50	83	57	79	59	77	57
Aqueduct, .....	86	63	90	63	89	62	94	70	79	64	81	51	87	53	77	52	84	58	82	54	82	56
Blooming Grove, .....	77	55	83	55	85	69	86	66	75	58	78		78	49	77	51	80	55	79	60	77	61
Brookville, .....																						
Cannonsburg, .....	87	60	89	60	93	68	94	71	92	66	80	58	82	54	82	62	80	63	82	66	79	63
Carlisle, .....	85	59	86	60	87	61	91	69	81	65	81	55	85	53	79	53	85	59	80	65	82	61
Cassandra, .....	75	49	80	51	86	62	86	65	73	64	74	50	76	47	77	50	80	59	76	60	72	57
Centre Hall, .....	80	56	79	57	81	59	85	58	74	62	75	53	77	52	74	53	77	56	75	61	74	59
Chambersburg, .....	83	53	86	56	86	54	87	61	79	66	80	52	84	50	78	49	82	55	79	60	80	59
Coatesville, .....	84	58	88	58	88	60	89	70	76	66	85	57	89	54	82	52	85	64	82	66	86	60
Confluence, .....	82	60	80	57	89	59	90	69	93	63	79	56	79	50	80	52	82	56	85	57	88	58
Coopersburg, .....	79	63	83	61	83	63	85	69	79	66	80	59	85	58	79	56	79	63	79	66	79	63
Derry Station, .....	85	51	83	52	95	62	91	69	90	66	81	53	86	51	90	50	84	67	84	64	83	60
Drifton, .....																						
Dunmore, .....																						
Dushore, .....	78	48	78	50	84	50	85	62	76	62	77	46	80	44	84	48	82	54	76	57	80	56
Dyberry, .....	74	55	83	54	85	53	86	64	74	60	77	50	81	48	78	52	80	57	77	56	78	60
Easton, .....	83	60	83	59	85	64	85	70	78	64	78	58	82	55	80	58	79	62	80	67	80	62
Emporium, .....	80	54	81	54	85	58	86	65	75	60	78	50	80	50	78	55	80	55	74	61	70	60
Erie, .....	76	59	76	60	83	67	82	67	72	63	75	58	80	60	77	65	78	62	73	64	75	63
Everett, .....	79	54	83	53	85	58	90	68	76	66	77	54	78	50	78	49	80	56	76	60	76	57
Franklin, .....	81	52	89	56	89	61	80	63	77	64	81	50	83	55	79	57	82	56	77	62	75	58
Gettysburg, .....																						
Gramplan, .....	80	64	82	62	92	66	90	66	74	64	78	52	73	56	78	52	76	56	78	60	76	62
Greensboro, .....	84	61	92	67	94	67	97	62	80	67	87	64	87	64	87	64	87	64	85	64	87	62
Greenville, .....	71	50	82	64	82	59	87	62	69	59	74	57	74	58	74	59	80	50	70	63	68	55
Hallstead, .....	75	58	87	56	85	55	86	78	78	62	79	60	82	50	80	54	80	60	78	58	77	60
Hamburg, .....	83	65	88	63	89	60	91	69	79	70	82	59	87	53	82	56	82	62	82	65	81	62
Hamlington, .....	75	60	79	60	83	60	85	68	80	64	75	57	79	56	78	59	78	60	76	62	76	63
Harrisburg, .....	87	65	85	64	83	64	85	68	78	67	82	63	82	59	74	58	80	63	78	63	80	62
Holidaysburg, .....																						
Honesdale, .....	82	48	89	51	91	55	92	66	80	64	82	51	85	48	82	48	86	58	82	60	77	55

Maximum and Minimum Temperatures for Pennsylvania, August, 1897—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Huntingdon, .....	87	49	87	54	90	56	91	66	81	66	83	50	84	50	83	49	86	56	80	60	80	60
Indiana, .....	83	52	86	53	84	57	87	63	88	66	78	54	80	56	80	53	81	63	80	61	80	61
Irwin, .....																						
Johnstown, .....																						
Kennett Square, .....	82	53	85	59	88	61	86	68	89	66	83	56	85	55	81	54	83	63	83	66	83	61
Lancaster, .....																						
Lawrenceville, .....	83	53	87	59	87	57	84	67	89	62	80	43	83	53	83	63	77	53	74	56	75	53
Lebanon, .....	84	56	87	58	85	60	87	70	80	67	83	54	84	53	76	54	83	62	79	52	81	61
Le Roy, .....	72	56	77	57	86	58	83	67	73	57	74	52	78	54	76	57	80	56	71	61	74	53
Lewisburg, .....	82	68	87	57	87	57	93	67	83	67	83	52	82	49	80	53	83	59	80	61	79	61
Lock Haven, .....	90	39	88	44	92	42	94	44	92	43	84	37	87	33	82	40	86	44	83	46	82	47
Lycippus, .....	83	56	81	59	89	59	91	70	90	63	77	54	78	56	81	63	81	62	84	63	83	60
Mauch Chunk, .....	80	56	90	57	89	56	90	67	79	66	85	54	87	50	82	51	83	60	80	62	83	61
Philadelphia (a), .....	82	63	85	67	90	63	86	72	77	65	83	63	84	66	82	66	78	62	81	65	82	64
Philadelphia (b), .....	82	63	84	66	88	63	87	71	80	65	81	61	85	61	82	61	79	61	81	63	83	63
Pittsburgh, .....	81	60	86	61	91	67	91	70	80	66	78	59	80	59	82	65	83	63	85	66	76	64
Pottstown, .....	84	60	85	61	88	64	89	71	74	70	84	60	86	58	83	57	82	62	82	63	82	64
Quakertown, .....	81	58	86	55	86	59	87	66	76	66	82	54	84	53	82	51	80	60	83	62	81	59
Renova, .....	81	56	84	58	86	59	90	68	81	62	80	52	82	53	78	55	83	60	78	61	76	61
Saegertown, .....	80	46	87	46	89	53	90	54	81	59	78	44	79	45	80	54	84	50	81	57	75	53
Scranton, .....	76	60	83	55	88	56	91	63	88	64	79	56	85	51	82	54	81	59	80	55	75	50
Sellinsgrove, .....	87	64	89	60	90	65	89	67	90	63	81	53	85	53	80	55	82	60	83	62	82	58
Shingle House, .....	80	50	85	49	89	48	89	50	74	55	79	43	81	42	82	44	83	43	74	55	75	55
Smethport, .....	80	46	85	52	86	54	88	60	74	53	79	44	81	48	78	50	80	47	69	53	75	55
Somerset, .....	76	49	83	49	80	60	85	53	78	60	72	52	70	43	75	54	76	52	82	53	71	55
South Bethlehem, .....	83	64	84	65	87	68	88	72	72	67	78	64	83	53	81	64	82	65	83	69	82	70
South Eaton, .....	80	57	78	57	83	53	85	63	76	65	78	53	79	52	77	55	77	60	76	62	76	58
State College, .....	79	57	83	57	85	53	87	66	74	61	75	52	78	52	76	54	81	56	75	60	74	56
St. Marys, .....	80	56	85	51	87	53	88	55	76	63	75	47	77	47	77	51	82	51	67	56	72	56
Swarthmore, .....	90	65	85	65	85	72	86	74	76	59	73	53	84	53	82	66	90	66	81	65	80	63
Swiftwater, .....	74	55	77	56	79	59	81	64	71	62	75	62	77	52	74	52	74	53	73	57	75	57
Towanda, .....	76	57	80	56	86	55	88	66	76	59	79	52	81	50	80	54	82	57	79	60	77	59

Unlontown, .....	83	55	83	55	90	66	79	69	91	69	79	66	78	57	79	55	80	61	82	57	81	60	78	58
Warren, .....	77	50	81	54	85	57	62	62	85	62	76	61	78	43	79	51	77	50	79	53	75	61	74	56
Wellaboro, .....	78	52	83	53	85	55	65	65	88	65	73	60	76	46	83	47	82	51	85	54	76	53	73	58
West Chester, .....	83	61	83	63	85	66	70	70	84	70	79	67	80	60	82	60	79	59	80	63	79	67	80	62
Westtown, .....																								
White Haven, .....	70	56	81	54	85	56	66	66	87	66	75	60	78	55	81	49	78	56	76	58	78	53	78	61
Wilkes-Barre, .....	79	57	86	50	90	53	67	67	92	67	84	64	85	55	87	52	81	55	86	62	82	62	84	61
Williamsport, .....	83	53	82	53	83	60	64	64	87	64	70	64	78	55	80	53	77	57	79	61	75	61	77	63
York, .....	83	50	84	60	87	61	70	76	89	70	76	69	80	54	84	52	80	50	83	62	80	63	80	61

Maximum and Minimum Temperatures for Pennsylvania, August, 1897—Continued.

Stations.	12.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	79	58	80	47	87	50	85	63	79	60	72	57	73	48	78	46	74	51	81	46	84	55
Aqueduct, .....	81	55	81	51	92	58	93	67	85	63	76	63	86	57	82	56	80	60	84	51	89	61
Blooming Grove, .....	76	54	76	49	83	53	85	63	80	61	73	52	74	50	74	54	72	53	77	42	80	53
Brookville, .....																						
Cannonsburg, .....	78	61	81	53	87	58	86	71	81	63	75	58	70	54	77	58	77	60	82	55	84	59
Carlisle, .....	83	60	83	54	89	57	89	67	85	64	80	60	82	56	81	57	79	57	83	52	83	62
Cassandra, .....	72	54	74	46	81	49	79	61	72	62	67	57	69	48	74	47	68	55	76	46	76	54
Centre Hall, .....	75	60	74	51	80	52	83	62	78	60	68	58	71	49	74	50	71	56	76	49	80	57
Chambersburg, .....	80	57	82	49	89	55	88	65	84	60	77	58	83	52	78	53	77	53	82	51	83	57
Coatesville, .....	87	58	85	54	90	56	87	70	90	65	83	59	84	58	80	59	82	61	83	51	87	67
Confluence, .....	77	58	81	54	84	55	89	54	84	60	80	58	75	49	76	50	80	56	79	54	83	62
Coopersburg, .....	78	63	78	57	85	59	84	71	84	66	76	62	78	58	76	60	76	62	80	52	82	67
Derry Station, .....	75	58	81	48	84	52	91	60	86	64	74	53	76	50	73	55	77	53	77	51	81	57
Drifton, .....																						
Dunmore, .....																						
Dushore, .....	79	49	75	42	80	49	81	63	79	59	72	48	76	42	78	46	70	54	74	40	81	54
Dyberry, .....	78	53	76	48	84	46	84	57	81	57	71	52	74	45	73	45	70	52	76	39	81	53
Easton, .....	78	59	76	55	86	56	85	68	83	66	80	60	77	57	78	62	73	60	79	52	82	63
Emporium, .....	75	59	76	50	82	52	77	62	75	62	69	55	72	50	76	50	71	50	77	46	78	55
Erie, .....	71	63	74	53	84	62	77	60	70	61	67	60	72	57	68	60	66	51	71	50	73	57
Everett, .....	77	56	80	49	87	58	85	63	79	61	72	58	74	48	75	49	74	54	80	49	81	58
Franklin, .....	73	55	81	49	87	53	81	61	73	59	70	57	76	53	71	53	70	48	81	48	78	54
Gettysburg, .....																						
Grampian, .....	78	58	76	50	84	52	76	64	74	60	66	56	72	50	74	50	68	54	74	56	76	56
Greenboro, .....	87		87		90		88		84		75		80		84		75		84		84	
Greenville, .....	76	59	74	47	79	61	79	65	67	53	64	57	73	50	75	54	70	48	74	41	75	44
Hallstead, .....																						
Hamburg, .....	81	61	82	57	90	56	89	70	86	65	78	61	83	58	80	58	77	60	83	52	88	67
Hamilton, .....	72	59	72	55	82	58	84	67	80	64	69	58	75	54	77	58	65	54	76	49	78	63
Harrisburg, .....	79	64	79	60	87	60	86	68	84	64	74	63	78	59	78	62	76	62	79	55	83	63
Holidaysburg, .....																						
Honesdale, .....	80	56	82	45	89	49	88	60	82	58	74	57	76	46	84	47	77	53	86	45	86	53

Huntingdon, .....	79	55	81	47	90	52	87	63	84	60	84	58	78	48	82	50	76	52	87	49	87	48
Indiana, .....	75	57	74	48	81	57	84	66	79	64	72	56	71	51	72	55	73	56	72	53	78	61
Irwin, .....																						
Johnstown, .....																						
Kennett Square, .....	82	60	80	57	88	56	87	67	86	66	79	60	81	61	79	59	78	62	83	53	83	53
Lancaster, .....																						
Lawrenceville, .....	72	51	83	50	80	62	88	64	78	61	73	51	72	47	75	47	74	47	75	44	79	52
Lebanon, .....	82	58	80	52	88	55	87	68	86	62	79	57	81	55	79	58	79	58	81	52	84	60
Le Roy, .....	73	55	73	49	81	56	83	63	79	59	74	54	76	49	74	54	67	53	78	47	77	57
Lewisburg, .....	80	59	81	52	88	51	91	61	82	64	74	59	78	53	81	51	76	54	82	48	84	58
Lock Haven, .....	80	42	84	35	88	38	89	48	83	47	80	44	71	34	82	36	77	36	82	49	86	58
Lycippus, .....	80	59	74	52	83	61	85	71	85	63	77	58	72	54	73	60	79	57	81	56	80	64
Mauch Chunk, .....	83	57	82	49	89	50	88	65	86	62	76	58	80	52	79	55	76	55	83	46	85	66
Philadelphia (a), .....	83	67	80	64	89	66	88	72	86	68	79	65	82	67	80	66	78	66	85	63	82	70
Philadelphia (b), .....	85	64	82	61	89	64	87	71	89	68	82	68	79	65	80	64	81	65	81	60	82	70
Pittsburgh, .....	76	60	82	55	90	61	83	73	74	63	72	60	75	58	80	61	74	61	82	57	80	58
Pottstown, .....	82	60	80	53	89	57	88	72	87	67	79	61	80	60	78	62	80	60	82	54	86	68
Quakertown, .....	81	57	79	50	87	53	86	68	86	63	77	57	80	53	78	55	78	59	82	47	85	64
Renova, .....	79	58	79	51	85	53	86	63	79	61	72	60	76	52	79	50	73	53	80	48	82	57
Saegerstown, .....	73	47	78	40	85	45	81	63	72	54	72	58	75	45	76	54	70	40	78	38	78	44
Scranton, .....	79	56	79	53	86	51	90	62	84	61	75	57	80	50	81	50	74	55	80	45	84	60
Sellingrove, .....	81	59	80	55	88	53	86	60	90	62	78	58	82	54	85	53	79	52	80	49	84	54
Shingle House, .....	70	50	78	44	84	44	84	52	78	48	74	42	74	46	77	47	70	42	73	39	78	40
Smethport, .....	74	50	76	42	82	46	76	58	71	56	66	51	72	46	74	46	71	43	76	42	79	43
Somerset, .....	72	52	76	42	82	52	80	60	72	52	75	58	68	45	72	46	68	52	76	56	76	45
South Bethlehem, .....	81	62	80	53	88	57	89	71	84	67	84	63	80	60	77	62	79	62	80	55	87	67
South Eaton, .....	77	53	75	53	83	53	86	65	81	63	74	54	76	52	77	57	70	56	76	46	79	63
State College, .....	74	56	77	50	83	51	83	60	77	61	66	57	71	50	74	52	70	54	78	44	80	53
St. Marys, .....	74	56	75	45	82	46	82	60	73	55	65	54	72	47	74	47	75	48	77	44	80	50
Swarthmore, .....	80	59	79	62	88	72	87	71	85	65	77	63	80	62	79	67	77	56	81	60	82	68
Swiftwater, .....	74	56	72	50	79	52	81	66	77	59	69	55	71	51	73	53	67	55	73	46	77	55
Towanda, .....	78	55	78	50	84	49	87	61	83	60	73	54	74	46	78	48	72	56	78	41	81	55
Uniontown, .....	76	57	81	52	87	56	86	69	77	61	71	57	73	49	79	52	74	55	81	52	82	53
Warren, .....	72	55	76	45	81	50	78	61	76	54	66	46	70	50	72	54	68	49	75	46	74	52
Wellsboro, .....	75	52	81	47	85	48	78	61	80	58	74	53	78	45	75	47	70	50	78	42	80	52
West Chester, .....	80	63	77	58	86	62	84	70	85	68	77	63	78	63	77	62	76	63	80	57	82	63
Westtown, .....																						
White Haven, .....	76	50	78	48	86	48	86	64	81	62	72	54	76	51	77	51	70	54	76	44	81	62
Wilkes-Barre, .....	84	57	80	52	90	53	92	65	92	54	77	58	82	53	82	52	76	54	83	47	86	62
Williamsport, .....	70	59	77	54	80	54	84	55	80	63	70	60	71	50	78	51	72	56	77	50	81	53
York, .....	81	59	79	53	88	58	89	63	84	64	76	58	79	57	77	59	76	57	82	54	82	61

**Maximum and Minimum Temperatures for Pennsylvania, August, 1897—Continued.**

Stations.	23.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.			
Altoona, .....	73	57	79	61	75	61	78	53	84	56	86	53	88	47	77	60	76	54	80.4	53.9
Aqueduct, .....	80	52	81	55	84	59	80	61	84	64	84	57	86	63	82	62	84	55	83.9	53.4
Blooming Grove, .....	69	52	73	56	77	52	78	49	77	44	77	54	78	52	82	53	80	43	77.9	54.1
Brookville, .....																				
Cannonsburg, .....	76	63	77	63	75	61	78	53	87	56	86	53	82	50	76	60	76	54	81.6	60.0
Carlisle, .....	70	61	80	62	80	57	77	58	82	51	84	58	86	57	84	55	81	51	82.7	53.2
Cassandra, .....	70	55	71	60	70	59	70	46	81	46	74	51	80	47	70	57	73	42	74.9	53.4
Centre Hall, .....	71	57	74	60	74	59	73	52	78	55	81	50	81	50	77	62	73	47	76.2	55.5
Chambersburg, .....	72	59	76	62	78	54	76	54	82	50	83	56	83	49	83	53	79	47	81.4	55.2
Coatesville, .....	84	62	83	64	86	57	85	60	83	51	89	60	88	52	88	59	84	60	85.2	59.5
Confluence, .....	83	51	76	53	74	53	76	51	77	47	87	53	80	52	86	52	77	49	81.6	54.9
Coopersburg, .....	78	62	76	65	80	60	77	61	79	53	81	63	80	55	79	61	79	55	79.7	61.2
Derry Station, .....	78	53	74	60	75	60	73	54	76	49	86	55	81	50	80	63	73	42	81.4	56.2
Drifton, .....																				
Dunmore, .....																				
Dushore, .....	71	51	72	55	71	52	73	43	78	41	74	50	80	43	73	49	72	37	77.1	49.3
Dyberry, .....	71	50	70	53	77	49	73	50	79	40	77	55	82	44	74	54	73	39	77.5	51.6
Easton, .....	88	62	86	66	78	62	78	62	79	53	77	56	77	56	73	53	73	53	79.9	60.0
Emporium, .....	70	54	70	60	75	55	73	49	81	49	77	55	82	50	73	55	74	45	76.5	54.4
Erie, .....	67	53	73	59	68	60	69	53	75	60	74	59	82	62	67	56	71	53	73.7	59.4
Everett, .....	73	56	75	59	73	58	76	44	83	46	81	56	85	48	77	56	77	47	78.7	54.3
Franklin, .....	75	54	76	60	78	61	77	47	82	51	79	51	85	51	78	54	76	45	78.7	54.3
Gettysburg, .....																				
Gramplan, .....	68	60	76	63	72	60	73	50	82	46	76	54	80	50	72	60	74	44	76.5	56.5
Greensboro, .....	75		84		84		84		87		85		87		83		85			
Greenville, .....	69	53	75	57	66	53	73	42	77	53	78	44	76	50	69	50	72	42	73.9	54.1
Hallstead, .....	68	53	74	60	77	53	71	49	78	45	75	53	80	48	70	55	83	56	78.6	55.2
Hamburg, .....	75	62	78	64	78	53	80	57	84	50	83	57	86	55	81	60	82	55	82.9	60.4
Hamlington, .....	72	58	69	60	75	53	72	56	78	51	76	62	82	53	70	62	73	52	76.1	53.7
Harrisburg, .....	72	63	78	62	78	60	75	60	81	55	83	67	82	57	81	64	77	53	80.0	62.0
Holidaysburg, .....																				
Honesdale, .....	74	54	80	60	76	59	80	46	88	44									82.6	53.2

Huntingdon, .....	77	58	81	61	78	58	78	58	61	79	47	85	53	89	45	82	58	81	41	83.3	52.6
Indiana, .....	79	59	78	60	76	58	76	58	60	75	53	83	52	77	54	80	66	74	64	78.5	57.6
Irwin, .....																					
Johnstown, .....																					
Kennett Square, .....	77	63	81	64	85	65	85	65	81	81	52	85	61	85	54	85	65	82	58	83.2	60.2
Lancaster, .....																					
Lawrenceville, .....	74	55	73	55	88	60	88	60	76	76	47	76	51	79	49	82	49	74	45	79.2	53.5
Lebanon, .....	71	61	78	64	81	56	81	56	79	79	50	85	59	85	51	89	60	81	52	82.1	57.8
Le Roy, .....	66	52	71	57	74	58	74	58	69	69	50	73	55	81	52	74	56	70	49	75.2	55.1
Lewistown, .....	69	58	77	62	79	57	79	57	79	79	49	82	55	85	49	80	56	80	45	81.5	56.2
Lock Haven, .....	84	56	78	62	80	59	80	59	82	82	50	83	56	87	50	73	60	82	48	84.0	46.3
Lycippus, .....	79	59	77	58	73	58	73	58	74	74	51	83	57	79	56	82	63	72	48	80.0	59.0
Mauch Chunk, .....	72	56	79	63	81	56	81	56	77	77	57	83	59	85	49	80	56	81	48	82.4	56.3
Philadelphia (a), .....	77	66	80	67	84	66	84	66	81	81	67	85	70	83	63	84	67	80	63	83.5	66.2
Philadelphia (b), .....	77	66	80	67	84	65	84	65	81	81	65	85	65	81	60	86	66	80	62	82.7	54.7
Pittsburgh, .....	70	63	77	62	75	62	75	62	76	76	53	86	57	84	59	76	60	75	50	80.0	61.0
Pottstown, .....	76	64	79	67	83	61	83	61	80	80	62	82	61	81	55	85	61	80	58	82.6	61.9
Quakertown, .....	78	59	79	63	83	55	83	55	81	81	57	82	57	82	49	83	56	79	52	81.8	56.9
Renova, .....	74	56	76	61	77	60	77	60	76	76	50	82	56	84	50	75	61	76	48	79.6	56.1
Saegertown, .....	77	49	78	54	77	59	77	59	75	75	41	81	45	38	47	80	50	77	39	78.9	49.0
Scranton, .....	72	55	74	60	80	55	80	55	81	81	57	82	60	84	48	77	59	76	40	80.8	55.2
Selinsgrove, .....	72	52	76	58	79	58	79	58	82	82	54	81	49	84	48	83	53	80	54	82.5	56.6
Shingle House, .....	78	40	79	53	80	52	80	52	78	78	38	82	44	80	40	82	46	80	52	79.2	46.2
Smethport, .....	70	52	76	51	74	59	74	59	74	74	42	81	51	80	42	73	55	75	40	76.5	49.5
Somerset, .....	75	55	69	59	70	56	70	56	75	75	45	85	56	92	45	70	56	76	40	75.6	51.9
South Bethlehem, .....	85	60	75	65	80	61	80	61	82	82	62	83	63	94	57	81	63	82	57	82.1	63.0
South Eaton, .....	67	57	71	61	75	55	75	55	72	72	55	78	59	79	50	72	56	71	48	76.7	56.8
State College, .....	70	56	75	61	73	60	73	60	74	74	50	80	49	82	50	76	61	75	45	76.8	55.1
St. Marys, .....	68	53	75	55	73	58	73	58	73	73	41	80	47	83	46	74	57	70	51	76.5	51.2
Swarthmore, .....	75	69	77	63	82	65	82	65	78	78	57	81	58	78	65	82	61	76	58	80.8	63.7
Swiftwater, .....	68	61	70	52	73	56	73	56	70	70	54	74	52	74	50	72	57	70	44	73.8	55.2
Towanda, .....	67	57	72	61	79	55	79	55	73	73	49	81	54	83	47	72	59	75	47	78.4	54.4
Uniontown, .....	71	60	75	58	75	58	75	58	73	73	60	84	55	82	50	75	60	73	46	79.6	57.2
Warren, .....	73	52	74	58	72	60	72	60	70	70	45	80	55	80	48	75	45	74	44	75.7	52.1
Wellsboro, .....	74	55	73	56	75	52	75	52	74	74	43	78	46	80	45	76	52	74	40	73.3	51.1
West Chester, .....	76	65	77	66	82	63	82	63	78	78	63	81	65	80	58	83	64	77	60	80.4	63.1
Westtown, .....																					
White Haven, .....	72	56	74	60	76	52	76	52	72	72	54	79	52	82	47	77	55	73	45	77.8	54.2
Wilkes-Barre, .....	76	57	75	61	82	55	82	55	78	78	50	83	60	84	50	79	60	79	49	83.2	56.3
Williamsport, .....	70	60	72	61	76	58	76	58	73	73	53	79	52	80	52	75	53	74	49	77.6	56.6
York, .....	77	61	76	63	80	53	80	53	78	78	61	82	63	82	52	83	61	79	55	81.2	58.9



Daily Precipitation for Pennsylvania, August, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....					.31				.36	.25						.60
Blooming Grove, .....					1.40				.09	.06	.02	.30			.29	.17
Browers' Lock, .....					.10				.21	.18	.68				.11	.43
Coatesville, .....					.09				.20	.44	.84			.08	.10	.38
Coopersburg, .....					.25			.01	.46	.01	.34				.06	.96
Doylestown, .....					.30				.24		.69				.26	.65
Dyberry, .....					.54				.02		.03				.24	.07
Easton, .....				.02	.85			†	.09		.08				.01	.56
Forks of Neshaminy, .....				.05	.32				.35		.51				.22	.65
Frederick, .....					.07				.31		.48				.09	.54
Hamburg, .....				.50				†	.55	.71					.51	
Hamlington, .....					1.50			†	.10	.03	.13	.37	.06		1.20	.18
Honesdale, .....																
Kennett Square, .....				.03	.01				.03	.22	.92					.37
Lansdale, .....					.31			.20		.08	.59			.03		.33
Mauch Chunk, .....				.05	.41				.32	.21					.23	
Ottsville, .....					.86				.14		.28				.20	.68
Philadelphia (a), .....				†	.05				.67	†	1.70				.20	.20
Philadelphia (b), .....				†	.04				.60	†	1.51				.39	.21
Point Pleasant, .....					.41				.10	.27					.54	.78
Pottstown, .....				.28				.25		.40						1.25
Quakertown, .....					1.14			†	.12	†	.36				.03	1.00
Reading, .....					.52				.04	.05	.72				.22	.53
Selsholtzville, .....					.43				.23		.79					.65
Shawmont, .....					.20				.33	1.75					.10	.33
Smiths' Corners, .....					.48		.10								.21	.87
Swiftwater, .....				1.00	.72				.61	2.35	1.00				.57	
West Chester, .....					.12			.10	.06	.20	.70				.21	.47
White Haven, .....				.41	1.05			†	.43		.08				.60	

Susquehanna Basin.													
Altoona, .....	.41	.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.01
Aqueduct, .....	.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.25
Carlisle, .....	1.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.27
Centre Hall, .....	.....	.53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.06
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.27
Dunmore, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	.34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Emporium, .....	.18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.18
Everett, .....	1.33	.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.22
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.14
Girardville, .....	.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.03
Gramplan, .....	.26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hallstead a, .....	.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Harrisburg, .....	.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Holidaysburg d, .....	.21	.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntingdon, .....	.30	.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	.62	.23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lebanon, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Le Roy, .....	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lewisburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lock Haven, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Renova, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Scranton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Selinsgrove, .....	.23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Eaton, .....	.06	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
State College, .....	.43	.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Towanda, .....	.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wellsboro, .....	.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wilkes-Barre, .....	.67	.27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williamsport, .....	.....	.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
York, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ohio Basin.													
Beaver Dam, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cannonsburg, .....	.08	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cassandra, .....	.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Confluence, .....	.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Davis Island Dam, .....	.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Derry Station, .....	.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Du Bois, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elwood Junction, .....	.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Daily Precipitation for Pennsylvania, August, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Franklin, .....				.21				.29		1.62	†				1.00	1.01
Freeport, .....				.16	.50				†	.30	.84					.35
Greensboro, .....	.05		.20	.12	†					.17	.35	†				.35
Greenville, .....			†	.29				.20		.96	†	.11			1.94	.09
Indiana, .....																
Irwin, .....		†	.19						.52	.20				.09	.14	
Johnstown, .....				.01	.35					.54	.53	†				.10
Lock No. 4, .....	.03				.27				.03							.38
Lycippus, .....			.33	2.13						.64	.05				.42	.06
Oil City, .....				†	.19				.04	.50	.27		.10		.08	1.95
Parkers' Landing, .....					.43				.33	.27	.82		.06			.39
Pittsburgh, .....	†		.07	.12	†					.35	.40	†			.06	.13
Ridgway, .....					.34				.05	.14	.43	.05	.04			.85
Saegerstown, .....					.80			†		1.70	.13	.10			.24	2.27
Shingle House, .....					.65					.75					.12	.13
Smethport, .....					.70					.90		.20			.20	.65
Somerset, .....			1.30	.31	.15											.45
St. Marys, .....				.61				.03		.61	†				.25	.33
Uniontown, .....			.58	.02	.03				.02	.63	†					.15
Warren, .....				.05	.31			†		1.42					.30	1.04
West Newton, .....				.02	.32	†				†	.50	.14				.37
Potomac Basin.																
Chambersburg, .....					.02					1.41					.43	.03
Lake Basin.																
Erle, .....				.40	†					.93	.01			†	1.00	1.11

†Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
†Report missing.

Daily Precipitation for Pennsylvania, August, 1897—Continued.

Stations.	Day of Month.															Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	
Delaware Basin.																
Bethlehem, .....						1.08		1.04								3.64
Blooming Grove, .....			.12			.02		2.09								4.56
Browsers' Lock, .....	.05							.57		.08						2.41
Coatesville, .....							.44	.24		.19						3.00
Coopersburg, .....				.02	†		.06	.76								2.92
Doylestown, .....		†				.27	.26	1.11								3.87
Dyberry, .....			.25	.17			.20	1.31						†		2.83
Easton, .....			†		.01	.88	.07	.63								3.20
Forks of Neshaminy, .....						.72	.12	.05	.02	.08						3.09
Frederick, .....			.03			.04	.09	.37		.13						2.19
Hamburg, .....							.39	1.50								4.16
Hamlington, .....			*	.34		.03	*	1.47	.05							5.51
Honesdale, .....																
Kennett Square, .....	.08	.03					.13	.20		.20						2.77
Lansdale, .....							.16	1.37	.13							3.20
Mauch Chunk, .....			.23			.21	†	.73								2.94
Ottsville, .....						.80		1.91								4.87
Philadelphia (a), .....						.07	.43	.13		.08						3.52
Philadelphia (b), .....						.06	.40	.06		.09						3.27
Point Pleasant, .....						.08	.02	.60		.13						2.93
Pottstown, .....					.60		.23	.17								2.64
Quakertown, .....			.03			.21	.10	.45								3.43
Reading, .....				.22		.02	.05	.17								2.54
Seisholtzville, .....							.05	1.12								3.27
Shawmont, .....						.29	.13	.32		.10						3.60
Smiths' Corners, .....						.05	.10	1.50		.06						3.75
Swiftwater, .....			.15				†	2.20								3.60
West Chester, .....							.22	.35		.05						2.58
White Haven, .....			.18	.07		.01	.07	.57	.02					†		3.48

Daily Precipitation for Pennsy Ivanla, August, 1897—Continued.

Stations.	Day of Month.																Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.		
Susquehanna Basin.																	
Altoona, .....	.14		.06				.03	.01						†		2.17	
Aqueduct, .....			†		.22	.55	.50		.27							2.72	
Carlisle, .....			.11		.28		1.60	.12								5.12	
Centre Hall, .....	.27		.23				.40									2.43	
Drifton, .....																	
Dunmore, .....																	
Dushore, .....	†		.51		.04			.51								3.44	
Emporium, .....	.19						†	.05	.21					†		2.13	
Everett, .....	†		.22				.15	.18	.05							2.44	
Gettysburg, .....																	
Girardville, .....			.13				.10	.54								2.64	
Gramplan, .....	.12		.42					.65	.05							2.46	
Hallstead a, .....								1.21								1.86	
Harrisburg, .....			.13		†	.09	1.08	.51	.06					†		3.12	
Holidaysburg d, .....			.01				.02	.08						†	†	1.95	
Huntingdon, .....	.07						.11	.21								3.38	
Lawrenceville, .....			.40				.80	.07						.09		3.27	
Lebanon, .....			.06	.10		.02	1.25	.06	†					†		2.51	
Le Roy, .....			.04				.05	1.57	.01					.01		4.40	
Lewisburg, .....			.32				.90	.09								2.52	
Lock Haven, .....			.36				.76		.03					.06		2.32	
Renova, .....	†		.19	.09			.05	1.67	.03			.02				3.79	
Scranton, .....			.60													2.57	
Sellinsgrove, .....			.30	.12			.43	.10								1.88	
South Eaton, .....			.36		†	.19	.12	1.60								3.23	
State College, .....	.14			.28			.17	.18	†					†		3.39	
Towanda, .....			†			.02	.02	.44	.01	.01				.02		1.78	
Wellsboro, .....		†	†				.08	.26	.10					†		1.84	
Wilkes-Barre, .....			.27	.26				.72								2.57	
Williamsport, .....			•	.47			•	4.26								5.83	
York, .....			.04	.04	.01	.15	.23	.25	†							4.04	

Ohio Basin.														
Beaver Dam, .....	.16	.....	.....	.....	.....	.01	.10	.....	.20	.....	.....	.....	.....	1.55
Brookville, .....	.35	.....	.....	.....	.....	.....	.39	.....	.....	.....	.....	.....	.....	3.29
Cannonsburg, .....	.....	.08	.....	.....	.....	.....	.06	.....	.....	.....	.....	.....	.17	0.34
Cassandra, .....	.24	.08	.....	.....	.....	.02	†	.....	.....	.....	.....	.....	†	2.40
Confluence, .....	.44	.....	.....	.....	.....	.03	.04	.05	.....	.....	.....	.....	.....	2.56
Davis Island Dam, .....	.06	†	.43	.....	.....	†	.18	†	.....	.....	.....	.....	.20	1.52
Derry Station, .....	.....	.21	.....	.....	.....	.99	.....	.....	.14	.....	.....	.....	.....	3.40
Du Bols, .....	.....	.44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.13	2.23
Elwood Junction, .....	.46	.....	.....	.....	.....	.....	.02	.....	.....	.....	.....	.....	.30	2.65
Franklin, .....	.10	.11	.....	.....	.....	.42	.....	.....	.....	.....	.....	.....	†	5.00
Freeport, .....	.10	.03	.....	.....	.....	.....	.15	.06	.....	.....	.....	.....	.20	2.69
Greensboro, .....	.....	.22	.....	.....	.....	.10	.30	.....	.....	.....	.....	.....	.....	1.86
Greenville, .....	.11	.20	.....	.....	.....	.....	.13	.....	.....	.....	.....	.....	.50	4.88
Indiana, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	.....	.35	.....	.....	.01	.55	.....	.16	.....	.....	.....	.....	.....	2.33
Johnstown, .....	.14	.....	.....	.23	.....	.02	.06	.....	.....	.....	.....	.....	.05	2.23
Lock No. 4, .....	.07	.....	.....	.....	.42	.....	.25	.05	.....	.....	.....	.....	.....	1.64
Lycippus, .....	.....	.11	.....	.....	.....	.14	.....	.....	.06	.....	.....	.....	.....	4.52
Oil City, .....	.16	.14	.....	.17	.....	.....	.22	.....	.....	.....	.....	.....	.27	5.07
Parkers' Landing, .....	.32	.....	.....	.10	.....	.....	.02	.....	.....	.....	.....	.....	.43	3.82
Pittsburgh, .....	.31	.....	.....	.01	.....	.05	.27	.....	.....	.....	.....	.....	.19	2.08
Ridgway, .....	.22	.13	.....	.....	.....	.....	.36	.....	.....	.....	.....	.....	.08	2.80
Saegerstown, .....	.42	.....	.....	.....	.....	.12	.14	.....	.....	.....	.....	.....	.37	6.63
Shingle House, .....	†	.....	.....	.....	.....	†	.42	.....	.....	.....	.....	.....	.24	2.31
Smethport, .....	.....	.....	.....	.....	.....	.....	.25	.....	.....	.....	.....	.....	.35	3.25
Somerset, .....	.....	.75	.....	.....	.....	.15	.....	.....	.....	.....	.....	.....	.....	3.11
St. Marys, .....	.27	.....	.....	.....	.....	.....	.32	.....	.07	.....	.....	.....	.....	2.54
Uniontown, .....	.....	.....	.....	.....	.....	.22	.15	.....	.....	.....	.....	.....	.04	2.15
Warren, .....	.22	.11	.....	.....	.....	.06	.30	.....	.....	.....	.....	.....	.22	4.09
West Newton, .....	.10	†	.....	.17	.....	†	.17	†	.....	.....	.....	.....	†	1.89
Potomac Basin.														
Chambersburg, .....	.....	.....	.....	.....	.77	.....	.29	.....	.....	.....	.....	.....	.....	6.02
Lake Basin.														
Erle, .....	.....	.09	.....	.....	.....	.....	.27	.....	†	.....	.....	.....	.70	4.70

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

## SEPTEMBER, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 30.17 inches, is .09 above the normal. At the United States Weather Bureau stations the highest observed was 30.44 inches, at Pittsburgh and Erie, on the 28th, and the lowest, 29.84 inches, at Philadelphia, on the 17th.

### Temperature.

The means of the daily maximum and minimum temperatures, 77.5 degrees and 50.0 degrees respectively, give a monthly mean of 63.8 degrees, which is 1.0 degree above the normal, and 0.2 degrees above the corresponding month of 1896.

The average daily range was 27.5 degrees.

The highest monthly mean was 68.8 degrees, at Cannonsburg and Gettysburg.

The lowest monthly mean was 58.6 degrees, at Dyberry.

The highest temperature recorded during the month was 100 degrees, on the 16th at Hollidaysburg.

The lowest temperature was 24 degrees, on the 21st at Franklin.

The greatest local monthly range was 71 degrees, at Hollidaysburg.

The least local monthly range was 48 degrees, at Erie and Swarthmore.

The greatest daily range was 52 degrees, at Huntingdon.

### Precipitation.

The average precipitation for the month, 2.18 inches, is 1.39 inches less than the normal.

The largest totals of rainfall, in inches, were: Lock Haven, 4.21; Center Hall, 4.06; Hallstead, 3.94; Hamlington, 3.88; Renova, 3.69; State College, 3.60. The least were: Cannonsburg, 0.25; Erie, 0.54; Beaver Dam, 0.62; Greensboro, 0.65; Franklin, 0.77; Philadelphia, Weather Bureau, 1.10.

### Wind and Weather.

The prevailing wind was from the west.

Average number of rainy days, 5; clear, 18; partly cloudy, 7; cloudy, 5.





TOTAL PRECIPIT

1<sup>st</sup>

2  
SCALE



Under 1 1 to 2

ON. SEPTEMBER, 1897.

3"



5"

5

3"

3"

3"

IN INCHES.



3 3 to 4 Over 4

11/11/11

**Miscellaneous Phenomena.**

**Thunderstorms.**—1, 2, 7, 11, 12, 13, 16, 17, 19, 20, 23, 26.

**Hail.**—Easton, 13th.

**Frost.**—3, 4, 8, 15, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30.

**Solar Halo.**—Emporium, Greenville, Lock Haven, Renova, State College and St. Marys, 16th; Harrisburg, 21st and 22d.

**Lunar Halo.**—Dushore, 8th and 9th; Harrisburg, 7th.

Climatological Data for Penneylvania, September, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.				Sky.			Prevailing direction of wind.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (un-melted).	Number rainy days.		Number clear days.	Number partly cloudy days.	Number cloudy days.
Altoona, .....	Blair, .....	1,181	10	64.2	-0.6	96	16	31	21	44	3.18	-0.12	1.50	.....	6	.....	.....	.....	NW
Aqueduct, .....	Perry, .....	367	9	66.2	+0.3	98	10	37	21	42	2.66	-0.84	1.30	.....	5	15	10	5	NW
Blooming Grove, .....	Pike, .....	.....	33	61.4	+1.0	90	10	31	22	41	3.56	+0.48	2.12	.....	7	14	9	7	W
Brookville, .....	Jefferson, .....	1,173	13	.....	.....	.....	.....	.....	.....	.....	2.85	-0.72	0.83	.....	6	23	0	7	W
Cannonsburg a, .....	Washington, .....	936	25	63.8	+6.2	96	11	36	23	43	0.25	-3.36	0.08	.....	5	23	5	1	W
Carlisle o, .....	Cumberland, .....	480	50	66.8	.....	99	10	37	23	42	2.97	-0.91	1.75	.....	4	13	2	.....	.....
Cassandra, .....	Cambria, .....	2,100	.....	60.8	.....	88	16	30	21	40	2.86	.....	2.24	.....	7	19	8	3	NW
Centre Hall, .....	Centre, .....	1,100	.....	63.0	.....	90	16	37	22	36	4.06	.....	2.39	.....	5	13	9	3	.....
Chambersburg m, .....	Franklin, .....	1,000	35	69.8	.....	94	11	.....	.....	.....	3.08	+0.24	2.53	.....	6	17	6	7	W
Coatesville, .....	Chester, .....	380	10	67.2	+2.6	99	10	36	23	44	1.63	-3.31	0.63	.....	4	22	6	2	S
Confluence, .....	Somerset, .....	1,324	23	63.6	.....	97	17	33	23	44	2.56	-0.52	1.72	.....	5	13	2	16	.....
Coopersburg, .....	Lehigh, .....	520	8	66.4	+1.3	95	10	42	21	33	2.07	-1.20	1.18	.....	6	24	3	3	NW
Derry Station a, .....	Westmoreland, .....	1,172	.....	64.6	.....	93	16	31	23	45	2.62	.....	1.76	.....	5	23	4	3	E
Drifton, .....	Luzerne, .....	1,633	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	Lackawanna, .....	1,117	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	Sullivan, .....	1,590	.....	.....	.....	90	10	.....	.....	.....	2.53	.....	.....	.....	.....	.....	.....	.....	.....
Dyberry, .....	Wayne, .....	1,100	33	58.6	+0.3	91	10	29	22	44	3.14	+0.13	0.85	.....	6	19	4	7	N
Easton, .....	Northampton, .....	325	14	63.7	-1.4	90	10	40	21	31	2.49	-1.20	0.98	.....	9	21	5	4	W
Edinboro* 1 g, .....	Erie, .....	1,220	9	65.1	+3.4	88	9	23	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Emporium, .....	Cameron, .....	1,050	10	61.8	-0.8	90	16	30	21	40	2.73	-0.71	0.98	.....	7	19	10	1	W
Erie, .....	Erie, .....	1,400	24	64.0	0	88	9	40	23	24	0.54	-3.28	0.30	.....	4	20	7	3	S
Everett b, .....	Bedford, .....	1,060	.....	63.5	.....	93	16	32	23	43	1.55	.....	1.23	.....	5	19	8	3	NW
Forks of Neshaminy 1, .....	Bucks, .....	304	9	65.3	+0.1	.....	.....	.....	.....	.....	1.31	-2.87	0.62	.....	4	20	5	5	W
Franklin, .....	Venango, .....	955	22	61.4	+4.5	92	9	24	21	50	0.77	-2.94	0.42	.....	2	23	7	0	W
Gettysburg, .....	Adams, .....	.....	32	63.8	+5.4	95	3	32	26	26	.....	.....	.....	.....	.....	.....	1	1	SW
Gramplan, .....	Clearfield, .....	1,450	24	62.1	+1.3	90	16	23	21	33	3.16	-0.20	1.77	.....	.....	16	10	4	NW

Greensboro, .....	768	9	.....	.....	97	16	32	28	.....	0.65	-2.40	0.27	.....	4	22	7	1	S
Greenville, .....	1,000	6	58.8	-1.1	87	10	29	28	42	1.91	-3.08	1.17	.....	8	17	6	7	NW
Hallstead, .....	.....	.....	60.4	.....	91	10	30	28	40	3.94	.....	1.38	.....	8	13	7	10	N
Hamburg, .....	380	7	67.0	+0.8	97	10	37	21	42	1.83	-1.76	0.90	.....	4	17	10	3	NW
Hamlington, .....	1,600	9	62.4	+0.3	88	10	36	22	29	3.88	+0.06	1.85	.....	13	15	5	10	W
Harrisburg, .....	361	9	66.8	+0.8	95	10	41	22	31	1.30	-1.65	0.72	.....	5	20	5	5	NW
Holidaysburg d, .....	947	10	64.0	+0.8	100	16	29	21	50	2.75	-0.51	2.11	.....	5	20	4	2	W
Huntingdon a, .....	650	10	64.3	+0.5	98	10	31	23	52	3.31	-0.37	2.45	.....	5	17	8	5	W
Indiana, .....	1,350	4	66.2	+5.6	92	10	31	20	37	2.90	-1.67	1.56	.....	6	23	0	7	SW
Irwin, .....	884	.....	.....	.....	.....	.....	.....	.....	.....	1.45	.....	0.63	.....	5	11	16	3	.....
Johnstown, .....	1,184	10	64.5	+0.2	96	16	34	21	42	3.55	-0.07	2.47	.....	8	14	10	6	S
Kennett Square, .....	275	8	66.9	+1.7	97	10	40	21	39	1.63	-3.61	0.59	.....	4	20	8	2	W
Lancaster, .....	413	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	1,006	.....	60.0	.....	89	9	29	28	40	2.44	.....	1.13	.....	5	19	8	8	SW
Lebanon, .....	458	10	65.7	+1.5	97	10	36	29	42	1.57	-2.08	0.56	.....	5	18	7	5	NE
Le Roy, .....	1,400	9	60.8	-1.2	88	10	34	21	32	3.08	-0.33	1.35	.....	8	13	11	6	W
Lewisburg, .....	450	26	64.6	+2.7	96	10	35	29	45	2.01	-1.28	0.55	.....	6	20	4	6	W
Lock Haven, .....	560	10	66.2	+3.1	96	10	35	21	40	4.21	+0.31	2.17	.....	5	16	9	5	W
Lycippus, .....	1,420	5	66.4	-0.6	94	17	34	21	38	2.34	-1.09	1.50	.....	6	.....	.....	.....	.....
Mauch Chunk, .....	550	8	64.1	+0.2	95	10	34	28	42	2.14	-1.09	0.92	.....	6	23	2	5	W
Philadelphia, .....	117	26	68.4	+0.4	96	10	45	21	23	1.10	-2.18	0.63	.....	5	17	6	7	SW
1529 Centennial Avenue, .....	120	7	68.6	-1.3	96	10	44	21	30	1.11	-1.97	0.65	.....	4	17	8	5	SW
Pittsburgh, .....	842	27	68.0	+2.0	96	13	38	24	34	1.65	-0.98	0.42	.....	7	12	14	4	NW
Pottstown, .....	150	10	66.8	+0.3	96	10	40	28	34	1.54	-2.50	1.25	.....	3	26	2	2	NW
Quakertown, .....	536	23	63.6	+0.3	96	10	35	28	42	1.50	-2.36	0.82	.....	6	16	8	6	W
Reading 2, .....	280	24	63.8	-1.8	.....	.....	.....	.....	.....	1.54	-1.82	0.65	.....	6	.....	.....	.....	.....
Renova, .....	672	.....	63.7	.....	93	16	34	28	40	3.69	.....	1.75	.....	5	20	9	1	.....
Saegerstown, .....	1,200	6	60.4	-1.2	92	16	25	22	50	1.55	-2.38	1.47	T	3	8	14	8	NW
Scranton, .....	746	.....	62.5	.....	95	10	33	22	48	1.20	.....	0.38	.....	6	19	4	4	S
Selinsgrove, .....	455	9	63.6	-0.2	95	11	38	28	43	2.56	-1.18	0.70	.....	6	11	11	8	SW
Shingle House, .....	1,475	.....	60.4	.....	96	9	26	28	48	2.49	.....	1.22	.....	4	17	9	4	NW
Smethport, .....	1,500	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Somerset, .....	2,250	41	63.5	+3.7	95	15	28	21	46	1.38	-1.68	0.97	.....	3	14	14	2	NW
South Bethlehem, .....	339	7	66.6	+1.0	93	10	40	27	36	2.10	-1.24	1.02	.....	5	21	7	2	W
South Eaton, .....	660	8	61.6	+0.6	90	10	35	22	39	2.24	-0.23	1.09	.....	6	22	4	4	NW
State College, .....	1,191	10	63.7	+1.5	92	16	36	21	40	3.60	+0.69	1.27	.....	7	14	10	6	E
St. Marys, .....	1,740	.....	61.0	.....	93	16	28	28	45	2.85	.....	1.15	.....	4	17	11	2	.....
Swarthmore, .....	190	9	66.1	+0.2	92	11	44	27	30	1.58	-2.96	0.97	.....	4	14	12	4	SW
Swiftwater, .....	1,600	.....	59.4	.....	86	10	32	28	31	1.86	.....	1.31	.....	2	25	3	2	NW
Towanda, .....	754	.....	62.1	.....	94	16	38	29	50	2.93	.....	1.03	.....	7	20	6	4	NW
Uniontown, .....	681	10	63.4	-2.8	91	16	33	21	37	1.92	-1.34	1.20	.....	5	23	5	2	SW
Warren, .....	1,137	9	61.1	.....	89	16	31	21	46	1.63	-2.24	0.77	.....	3	22	2	6	E
Wellsboro, .....	1,327	19	59.6	+1.1	88	9	30	22	42	3.40	+0.73	1.55	.....	5	18	5	7	N

Climatological Data for Pennsylvania, September, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.			Prevailing direction of wind.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (un-melted).	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.
West Chester, .....	Chester, .....	455	43	66.7	+2.8	94	10	40	21	31	1.27	-3.20	0.49	.....	4	21	5	4	NW
Westtown h, .....	Chester, .....	350	9	64.8	.....	92	10	41	23	33	.....	.....	.....	.....	.....	13	5	4	W
White Haven, .....	Luzerne, .....	1,150	.....	60.7	.....	92	10	31	26	45	1.25	.....	0.57	.....	5	18	3	4	N
Wilkes-Barre, .....	Luzerne, .....	575	13	64.1	+1.9	96	10	35	21	41	1.49	-1.80	0.90	.....	4	13	3	14	SE
Williamsport, .....	Lycoming, .....	530	8	63.0	+0.7	91	10	37	21	39	2.99	-1.53	1.71	.....	5	23	4	3	W
York, .....	York, .....	335	10	65.0	-0.8	95	10	35	23	33	2.73	-1.61	1.41	.....	5	22	5	3	W

\*Extremes of temperature from observed readings of dry thermometers.  
1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 9 p. m. + 4. 2 Mean of 8 a. m. + 8 p. m. + 2.  
The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.  
A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.

Maximum and Minimum Temperatures for Pennsylvania, September, 1897.

Station.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	85	49	78	68	76	48	80	44	88	44	81	48	93	51	90	55	94	54	95	53	92	56
Aqueduct, .....	87	52	83	66	78	53	76	49	84	47	84	53	94	53	90	65	93	63	98	60	95	56
Blooming Grove, .....	80	56	81	53	74	44	76	39	84	52	86	55	85	57	83	53	87	55	90	62	87	60
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cannonsburg, .....	87	57	86	63	80	53	80	50	86	52	84	52	91	54	92	59	93	63	95	65	96	63
Carlisle, .....	82	52	81	65	78	54	78	46	86	48	93	53	92	56	90	60	92	51	99	61	.....	.....
Cassandra, .....	79	49	73	62	70	49	74	42	81	45	84	47	86	50	83	55	85	52	87	53	85	54
Centre Hall, .....	78	52	70	63	75	49	73	45	81	49	84	52	86	53	86	64	87	53	90	58	90	59
Chambersburg, .....	82	51	78	63	76	49	77	45	72	46	83	47	90	51	88	52	90	56	93	55	94	53
Coatesville, .....	84	52	83	66	76	53	81	46	89	49	94	54	90	59	87	64	94	65	99	63	99	67
Confluence, .....	78	48	87	52	77	52	76	44	80	45	85	48	88	49	93	50	92	54	92	55	93	56
Coopersburg, .....	80	54	78	65	75	57	74	50	80	54	87	60	84	64	82	64	90	65	95	66	91	69
Derry Station, .....	80	51	84	55	78	52	79	46	.....	.....	83	48	88	53	91	53	90	54	90	57	91	56
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	79	47	73	59	69	39	73	35	81	41	85	44	88	54	85	59	87	54	90	50	89	51
Dyberry, .....	78	47	74	59	71	44	76	38	85	43	87	46	85	46	83	48	83	50	91	55	88	57
Easton, .....	70	52	77	64	75	54	70	51	77	50	82	56	82	63	81	63	84	64	90	61	90	63
Emporium, .....	76	55	75	60	72	48	75	44	83	48	86	50	85	59	84	56	86	53	90	56	88	55
Erle, .....	76	61	68	60	70	55	73	55	77	53	79	64	79	65	83	63	88	64	87	72	79	61
Everett, .....	84	47	78	63	75	43	76	42	86	43	89	48	90	51	91	55	91	54	93	54	92	56
Franklin, .....	77	57	73	43	83	42	85	42	86	49	87	43	86	49	87	37	92	55	90	50	87	40
Gettysburg, .....	92	80	90	82	95	84	93	86	92	84	94	82	92	86	92	84	90	78	86	72	86	74
Grampian, .....	78	54	74	62	74	43	78	54	80	56	82	53	82	53	86	56	88	54	90	60	83	53
Greensboro, .....	80	.....	90	.....	80	.....	77	.....	85	.....	86	.....	87	.....	87	.....	90	.....	93	.....	95	.....
Greenville, .....	79	55	72	52	70	40	74	44	80	45	72	46	76	50	78	52	85	51	87	57	76	57
Hallstead, .....	79	51	73	59	69	46	78	43	84	47	88	51	82	59	85	53	89	54	91	56	88	57
Hamburg, .....	85	53	81	66	78	56	80	47	88	50	93	54	90	62	85	66	94	63	97	63	95	65
Hamilton, .....	80	55	70	61	63	55	74	47	80	55	83	60	85	64	79	59	85	61	88	66	84	67
Harrisburg, .....	81	56	79	65	75	60	75	52	83	54	88	57	89	62	85	68	90	66	95	65	94	67
Holidaysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntingdon, .....	86	48	82	46	73	46	78	.....	89	42	93	46	94	46	93	52	96	43	98	50	96	53



Maximum and Minimum Temperatures for Pennsylvania, September, 1897—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Indiana, .....	80	63	77	54	76	49	79	56	84	54	85	60	81	61	84	62	87	62	92	72	91	77
Irwin, .....																						
Johnstown, .....	84	56	80	48	78	52	81	45	86	46	86	50	93	53	90	54	91	55	94	54	91	57
Kennett Square, .....	83	54	82	64	76	59	77	48	83	50	91	54	90	60	85	65	91	67	97	64	97	67
Lancaster, .....																						
Lawrenceville, .....	79	55	77	60	74	42	69	46	79	45	84	50	82	55	80	60	89	62	87	56	87	54
Lebanon, .....	82	51	83	60	79	52	78	45	85	48	92	50	90	58	85	64	94	63	97	58	97	61
Le Roy, .....	71	55	75	55	68	48	73	45	80	52	84	58	88	62	83	63	85	59	88	64	87	59
Lewisburg, .....	83	52	80	60	77	47	79	43	86	47	91	50	91	57	85	66	92	62	96	57	95	55
Lock Haven, .....	84	52	81	62	80	48	81	46	89	59	92	52	91	58	91	63	94	58	96	56	96	59
Lycippus, .....	79	55	83	63	76	56	74	50	80	57	83	58	84	59	89	63	88	62	88	62	91	65
Mauch Chunk, .....	84	49	79	65	77	52	70	48	87	46	90	49	88	58	85	59	94	60	95	57	92	59
Philadelphia (a), .....	82	65	81	66	75	61	76	56	80	61	89	62	88	66	83	65	92	71	96	73	96	72
Philadelphia (b), .....	82	61	82	65	74	61	75	55	80	60	88	60	87	65	83	65	90	70	96	72	96	71
Pittsburgh, .....	86	57	78	66	75	58	79	53	86	54	84	56	87	65	91	61	92	62	95	65	93	64
Pottstown, .....	84	54	82	66	78	58	76	50	82	52	90	58	89	59	86	66	91	67	96	64	96	66
Quakertown, .....	84	48	80	63	75	52	76	44	82	47	88	50	87	59	83	59	91	61	95	59	93	63
Renova, .....	80	54	78	62	74	49	77	45	83	48	87	52	87	59	86	61	89	55	92	57	92	58
Saegertown, .....	79	53	76	56	74	40	80	38	89	41	89	46	87	49	87	47	92	46	90	52	86	48
Scranton, .....	83	51	76	64	72	50	78	43	85	46	88	50	91	59	83	51	92	55	95	61	93	60
Sellingsgrove, .....	82	46	79	54	74	54	80	54	74	46	87	54	91	50	90	66	90	62	94	59	95	59
Shingle House, .....	82	46	78	56	76	56	78	54	86	54	90	58	92	58	88	52	96	48	92	46	88	48
Smethport, .....																						
Somerset, .....	84	45	80	48	82	44	80	42	83	42	86	46	88	52	86	50	90	51	98	52	90	52
South Bethlehem, .....	83	56	78	57	78	57	80	53	82	54	90	54	88	63	88	62	89	62	93	63	93	70
South Eaton, .....	77	52	75	61	70	52	73	55	80	49	84	52	84	60	80	60	87	57	90	60	89	61
State College, .....	80	52	75	62	71	49	76	45	85	49	88	51	88	57	86	66	90	56	91	59	90	63
St. Marys, .....	75	52	75	60	70	42	75	40	83	44	87	45	85	55	87	42	90	45	93	52	90	55
Swarthmore, .....	81	65	80	61	72	53	72	56	77	58	85	63	88	66	82	67	96	68	91	71	92	66
Swiftwater, .....	74	54	78	58	67	50	68	43	77	48	81	54	78	59	77	54	82	55	86	61	85	55
Towanda, .....	81	55	74	59	72	46	77	43	86	45	88	50	88	58	86	59	90	53	94	55	91	53

Unlontown, .....	85	48	78	57	75	54	78	45	81	47	83	47	88	60	89	52	89	56	90	57	90	57	90	57	90	57	90	57	90
Warren, .....	75	54	72	59	71	48	72	43	82	47	94	49	84	55	83	56	86	50	88	57	82	57	88	54	83	52	86	54	83
Wellaboro, .....	80	54	74	60	73	42	78	38	85	44	88	46	86	54	80	56	88	52	86	54	83	54	86	54	83	52	86	54	83
West Chester, .....	80	61	80	66	74	58	74	52	80	56	88	58	87	65	83	66	88	70	94	68	93	68	94	68	93	70	94	68	93
Westtown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	82	64	86	65	92	68	92	68	92	68	92	68	92	68	92
White Haven, .....	80	47	76	62	71	50	76	42	82	48	85	42	84	57	82	57	90	56	92	55	91	55	92	55	91	56	92	55	91
Wilkes-Barre, .....	85	51	79	63	76	50	80	45	85	49	89	52	91	60	86	62	92	60	96	59	94	59	96	59	94	60	96	59	94
Williamsport, .....	78	53	75	59	72	49	78	47	82	49	84	50	85	53	78	63	87	61	91	60	91	60	91	60	91	61	91	60	91
York, .....	83	53	78	65	76	53	76	46	83	49	80	51	90	55	88	68	91	63	95	59	94	59	95	59	94	63	95	59	94



Indiana, .....	91	68	89	63	91	66	91	54	88	58	72	41	72	46	68	42	56	31	70	26	71	38
Irwin, .....																						
Johnstown, .....	90	60	92	62	88	91	55	96	56	71	61	73	42	80	43	60	44	62	34	70	35	
Kennett Square, .....	67	62	87	64	87	81	54	86	53	81	66	78	44	77	46	68	54	66	40	68	43	
Lancaster, .....																						
Lawrenceville, .....	88	59	81	62	71	72	47	87	47	68	65	67	36	65	41	62	47	57	33	63	34	
Lebanon, .....	79	61	92	63	86	81	47	90	56	83	62	75	41	80	43	66	45	66	40	72	37	
Le Roy, .....	74	56	84	59	68	72	45	87	55	68	48	69	40	76	48	48	38	60	34	62	35	
Lewisburg, .....	76	64	94	64	83	83	44	93	48	78	58	74	42	80	42	63	46	66	38	70	38	
Lock Haven, .....	81	68	93	59	88	84	49	92	52	77	66	76	42	80	45	65	49	68	35	70	39	
Lycippus, .....	89	64	87	70	92	87	64	88	68	94	61	72	46	70	56	72	41	57	34	60	41	
Mauch Chunk, .....	66	58	89	60	78	81	45	90	48	77	69	74	38	80	39	58	54	63	41	68	36	
Philadelphia (a), .....	72	64	83	66	82	77	58	84	60	82	59	71	50	76	55	64	50	64	45	64	50	
Philadelphia (b), .....	82	63	83	66	84	70	57	85	60	83	66	73	49	77	55	68	53	64	44	64	49	
Pittsburgh, .....	89	68	96	68	89	92	65	94	69	72	57	74	49	76	53	57	46	60	38	68	42	
Pottstown, .....	67	73	87	63	83	78	54	90	60	80	62	72	46	80	48	66	50	65	43	68	42	
Quakertown, .....	65	57	85	61	79	63	47	98	53	76	64	72	42	77	43	56	42	63	36	69	36	
Renova, .....	80	64	93	59	83	81	47	98	53	76	64	72	42	77	43	56	42	63	35	67	38	
Saagerstown, .....	85	55	88	58	73	88	44	92	54	80	56	70	34	67	41	58	32	66	26	69	26	
Scranton, .....	65	55	86	58	76	78	44	90	42	78	60	73	38	80	40	64	39	62	41	71	33	
Sellsgrove, .....	70	64	95	64	87	82	46	90	51	80	68	75	40	80	40	58	42	62	35	72	37	
Shingle House, .....	84	56	88	56	80	86	40	92	44	83	42	70	34	64	28	53	36	63	23	64	33	
Smethport, .....																						
Somerset, .....	88	54	83	56	90	95	60	80	52	84	56	80	58	75	42	70	50	63	28	64	50	
South Bethlehem, .....	70	60	86	59	80	79	53	88	60	80	62	69	49	72	47	69	47	63	42	66	55	
South Eaton, .....	70	56	76	62	72	72	46	87	48	74	58	68		76	47	59	47	57	40	66	35	
State College, .....	77	65	90	66	83	83	48	92	52	73	54	70	41	76	48	58	44	67	36	64	36	
St. Marys, .....	87	58	90	58	88	85	43	93	52	73	63	74	32	60	45	60	43	60	29	67	29	
Swarthmore, .....	69	66	82	70	80	73	56	72	62	80	50	68	53	73	60	63	45	62	47	64	50	
Swiftwater, .....	65	52	80	59	71	68	43	79	48	76	51	64	40	70	43	59	44	55	36	59	36	
Towanda, .....	77	60	89	63	73	75	44	94	44	79	55	71	37	78	43	66	46	57	37	66	34	
Unlontown, .....	89	58	90	58	88	88	60	91	59	71	54	78	40	78	49	58	40	60	33	71	35	
Warren, .....	83	59	86	64	78	83	46	89	56	69	54	66	38	69	46	69	54	62	31	68	34	
Wellsboro, .....	76	54	81	55	79	76	43	80	49	73	50	68	32	68	36	56	45	60	32	68	30	
West Chester, .....	78	63	84	65	82	76	55	85	53	80	62	70	47	73	50	64	49	62	40	67	45	
Westtown, .....	79	62	83	64	80	74	54	83	52	79	63	69	44	78	49	62	48	61	42	68	48	
White Haven, .....	75	56	88	59	73	78	41	90	45	75	56	67	36	76	38	66	45	58	38	67	33	
Wilkes-Barre, .....	65	55	88	56	77	78	45	90	49	80	68	72	39	80	42	78	47	61	39	71	35	
Williamsport, .....	90	68	89	64	78	76	50	84	53	74	58	71	43	75	46	54	50	61	37	65	38	
York, .....	74	62	93	64	83	83	48	90	55	78	62	71	44	78	45	66	49	53	28	67	86	

Maximum and Minimum Temperatures for Pennsylvania, September, 1897—Continued.

Stations.	23.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	55	47	64	47	78	37	83	43	70	43	70	33	77	34	86	42	.....	.....	80.6	47.7
Aqueduct, .....	58	51	67	52	77	46	84	46	70	45	67	37	75	39	85	43	.....	.....	80.5	52.0
Blooming Grove, .....	55	39	54	48	73	42	78	44	72	42	71	33	72	42	77	43	.....	.....	75.6	47.1
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cannonsburg, .....	62	49	76	51	82	45	86	51	.....	.....	76	39	75	37	86	43	.....	.....	83.1	54.4
Carlisle, .....	.....	.....	.....	.....	.....	.....	.....	.....	72	46	70	37	76	37	85	43	.....	.....	83.7	50.0
Cassandra, .....	50	46	70	46	71	38	77	41	61	41	66	30	73	33	77	40	.....	.....	74.5	47.1
Centre Hall, .....	55	46	61	47	70	41	79	45	72	47	63	28	69	38	74	42	.....	.....	75.6	50.5
Chambersburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84.7	54.8
Coatesville, .....	59	48	71	52	85	49	87	48	74	48	74	36	82	38	87	43	.....	.....	82.2	52.3
Confluence, .....	68	43	51	48	69	44	70	42	83	39	68	33	72	34	73	44	.....	.....	79.7	45.7
Coopersburg, .....	58	48	67	52	78	53	81	52	70	53	70	43	74	42	80	49	.....	.....	77.7	55.0
Derry Station, .....	73	43	73	43	74	39	77	46	81	36	67	31	71	34	79	35	.....	.....	80.9	48.2
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	54	.....	61	.....	69	.....	75	.....	68	.....	60	.....	70	.....	79	.....	.....	.....	74.7	.....
Dyberry, .....	52	40	59	49	75	39	78	38	57	39	61	30	72	31	82	46	.....	.....	73.5	43.8
Easton, .....	57	47	65	53	71	51	76	59	60	46	62	42	68	42	75	44	.....	.....	73.9	53.5
Emporium, .....	59	43	62	45	72	42	79	43	68	38	67	23	74	34	80	41	.....	.....	76.1	47.4
Erie, .....	64	51	65	53	74	52	78	55	56	48	58	40	68	46	78	55	.....	.....	72.0	56.1
Everett, .....	50	48	63	48	76	39	83	42	68	45	68	32	.....	.....	.....	.....	.....	.....	78.8	48.2
Franklin, .....	63	41	69	44	77	38	80	42	68	36	71	43	80	39	84	40	.....	.....	78.8	43.9
Gettysburg, .....	66	46	64	42	53	34	58	32	62	38	58	36	52	34	56	38	.....	.....	75.7	61.9
Grampian, .....	54	48	58	50	70	46	78	48	62	44	66	32	70	34	74	36	.....	.....	74.7	49.5
Greensboro, .....	60	47	70	45	79	42	84	42	70	40	72	32	73	33	80	36	.....	.....	76.4	46.8
Greenville, .....	65	37	64	39	73	35	74	37	65	35	63	29	65	33	72	30	.....	.....	72.2	45.4
Hallstead, .....	53	48	59	50	75	43	78	41	58	41	58	30	70	32	78	40	.....	.....	74.2	46.7
Hamburg, .....	57	50	67	54	78	52	82	54	67	53	70	39	78	40	83	45	.....	.....	80.2	53.9
Hamlington, .....	53	42	56	49	62	47	64	48	73	45	59	38	69	40	76	50	.....	.....	72.8	52.1
Harrisburg, .....	58	49	63	52	76	49	82	51	78	55	66	48	72	44	81	50	.....	.....	78.1	55.5
Hollidaysburg, .....	54	46	68	46	79	38	85	41	71	49	72	30	79	31	87	39	.....	.....	83.3	44.8
Huntingdon, .....	73	31	64	32	82	44	76	42	64	38	78	44	80	46	85	33	.....	.....	82.8	45.8

Indiana, .....	72	48	67	45	79	50	69	43	73	46	71	56	76	50	82	52	.....	78.8	53.5
Irwin, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown, .....	54	48	63	49	78	42	84	44	68	44	70	34	78	36	83	42	.....	80.1	48.9
Kennett Square, .....	66	48	66	50	80	50	83	50	73	52	71	40	78	42	83	44	.....	79.9	53.9
Lancaster, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	57	42	60	50	71	42	68	39	55	38	59	29	69	30	78	39	.....	72.7	47.2
Lebanon, .....	56	48	65	52	78	45	84	45	70	49	70	38	76	36	83	43	.....	80.5	50.9
Le Roy, .....	55	40	62	44	71	45	78	50	55	40	58	35	70	40	79	51	.....	72.5	49.1
Lewistown, .....	55	47	63	53	77	44	81	45	69	47	70	36	76	35	82	42	.....	79.5	49.6
Lock Haven, .....	67	45	64	49	78	44	84	45	79	44	74	35	77	37	83	43	.....	81.8	50.5
Lycippus, .....	69	50	60	48	67	48	75	56	82	44	64	37	68	46	73	51	.....	78.0	54.7
Mauch Chunk, .....	54	46	66	51	79	45	82	42	65	51	67	34	77	37	82	42	.....	78.2	50.0
Philadelphia (a), .....	66	50	66	53	78	57	81	58	70	51	67	46	76	51	82	54	.....	78.1	58.7
Philadelphia (b), .....	62	50	66	53	80	54	81	56	71	55	69	44	77	48	83	53	.....	78.8	53.3
Pittsburgh, .....	59	51	72	51	57	49	85	52	66	49	69	42	75	41	77	49	.....	80.0	56.0
Pottstown, .....	60	54	67	53	78	52	83	49	72	50	68	40	75	41	80	46	.....	79.0	54.6
Quakertown, .....	56	46	63	50	78	46	82	43	66	49	67	35	75	36	82	40	.....	77.5	49.8
Renova, .....	55	45	62	49	73	43	82	44	74	44	69	34	75	37	79	43	.....	77.8	49.6
Saegertown, .....	67	35	70	46	78	30	80	38	71	31	66	34	78	28	82	34	.....	78.6	42.3
Scranton, .....	60	44	59	51	76	46	80	42	74	42	64	34	75	34	80	40	.....	77.6	47.4
Sellinsgrove, .....	58	40	64	42	76	42	71	45	66	41	67	33	78	35	82	42	.....	78.3	48.9
Shingle House, .....	63	28	74	38	77	35	76	34	68	28	64	26	74	28	84	30	.....	78.5	42.3
Smetport, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Somerset, .....	60	48	62	50	75	45	78	42	66	40	70	28	78	32	80	40	.....	79.8	47.2
South Bethlehem, .....	72	54	78	52	79	47	76	49	72	40	72	44	71	46	78	42	.....	78.7	54.5
South Eaton, .....	55	43	59	50	70	45	70	45	73	41	62	36	70	35	76	40	.....	73.4	49.7
State College, .....	55	45	61	47	73	43	80	47	70	46	68	37	72	37	82	45	.....	77.1	50.3
St. Marys, .....	60	43	64	46	73	35	78	50	60	40	67	28	75	32	78	41	.....	76.8	45.3
Swarthmore, .....	63	52	65	55	74	53	77	57	66	44	62	48	71	50	76	56	.....	74.7	57.5
Swiftwater, .....	52	43	62	51	70	47	75	45	57	36	58	32	69	39	79	48	.....	70.5	48.3
Towanda, .....	56	42	60	50	74	41	81	43	66	43	62	36	73	33	82	38	.....	76.9	47.3
Uniontown, .....	56	45	68	46	72	41	80	46	66	39	70	34	71	35	73	40	.....	78.0	48.7
Warren, .....	60	43	60	43	73	40	76	46	74	39	60	31	67	34	79	33	.....	74.9	47.3
Wellsboro, .....	56	43	65	46	74	37	78	40	62	45	60	30	74	32	76	40	.....	74.3	44.8
West Chester, .....	61	49	65	50	78	51	82	54	70	53	66	42	74	44	81	50	.....	77.3	56.1
Westtown, .....	61	49	64	50	70	48	80	49	71	53	72	41	.....	.....	79	46	.....	75.4	54.1
White Haven, .....	54	44	60	42	73	43	81	31	63	41	61	35	72	34	79	39	.....	75.5	45.9
Wilkes-Barre, .....	59	45	63	51	74	45	79	44	78	47	64	35	72	35	77	41	.....	78.6	49.6
Williamsport, .....	57	44	62	46	76	45	77	45	64	46	67	37	71	38	79	40	.....	75.7	50.4
York, .....	58	49	64	51	76	45	83	48	70	52	67	35	74	38	82	44	.....	78.3	51.8

Daily Precipitation for Pennsylvania, September, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....		1.02														.06
Blooming Grove, .....	.53						.55						.10			.02
Browers' Lock, .....		.60														
Coatesville, .....		.63														
Coopersburg, .....		1.18										.25				
Doylestown, .....		.20														.35
Dyberry, .....		.32					.85					†	.09			.33
Easton, .....		.98					†						.64			.01
Forks of Neshaminy, .....		.13														
Frederick, .....												.30				
Hamburg, .....												†				.03
Hamlington, .....		.40					1.85		.02				*	.17		*
Honesdale, .....																
Kennett Square, .....		.59														
Lansdale, .....		.24														.05
Mauch Chunk, .....		.92											.02			
Ottsville, .....		.35										.05				
Philadelphia (a), .....		.63														
Philadelphia (b), .....		.65										†				
Point Pleasant, .....		.34										.10				
Pottstown, .....		.24														.05
Quakertown, .....		.82										.02				
Reading, .....		.25										.02				
Selsholtzville, .....		.66										.06				
Shawmont, .....		.93														
Smiths' Corners, .....		.47														
Swiftwater, .....							†					†	.55			
West Chester, .....		.32														
White Haven, .....		.28										†	.10			





Daily Precipitation for Pennsylvania, September, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Franklin, .....	.35															.42
Freeport, .....		.70														.70
Greensboro, .....		.17														.05
Greenville, .....		.65														
Indiana, .....		.30														.57
Irwin, .....	.31											†				.10
Johnstown, .....		.26	†									.23				.36
Lock No. 4, .....	.49															.14
Lycippus, .....	5.0															.09
Oil City, .....	.44															
Parkers' Landing, .....	.79													†		
Pittsburgh, .....		.32										.14				.42
Ridgway, .....	.34															.25
Saegerstown, .....																
Shingle House, .....		.44											†			.15
Smethport, .....																
Somerset, .....		.15														
St. Marys, .....	.21															.63
Uniontown, .....		.25														.07
Warren, .....		.77														.56
West Newton, .....		.76														
Potomac Basin.																
Chambersburg, .....		.20														.12
Lake Basin.																
Erie, .....	.30	.06														.06

\*Precipitation included in that of following day  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

Daily Precipitation for Pennsylvania, September, 1897—Continued.

Stations.	Day of Month.															Total.
	17.	18	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	
Delaware Basin.																
Bethlehem, .....				.32			.15	.55								2.10
Blooming Grove, .....	.09			.15				2.12								3.56
Browsers' Lock, .....	.28						.34	.62								1.84
Coatesville, .....	.15						.56	.29								1.63
Coopersburg, .....	.08			.02			.20	.34								2.07
Doylestown, .....	.26						.36									1.67
Dyberry, .....	.02			.21			.83	.36		.13						3.14
Easton, .....				.19			.36	.31		†						2.49
Forks of Neshaminy, .....	.12						.39	.62								1.31
Frederick, .....				.02			.20	.70								1.22
Hamburg, .....				.25			.90	.65								1.82
Hamlington, .....	.08			.20	.02		.46	.61		.07						3.88
Honesdale, .....																
Kennett Square, .....	.32						.45	.27								1.63
Lansdale, .....						.05	.07	.71								1.12
Mauch Chunk, .....	.08			.09			.64	.39								2.14
Ottsville, .....	.16						.39	.93								1.88
Philadelphia (a), .....	.14		.02				.20	.11								1.10
Philadelphia (b), .....	.14		†	†			.20	.12								1.11
Point Pleasant, .....				.28				.52								1.24
Pottstown, .....							1.25									1.54
Quakertown, .....	.04			.04			.25	.33		†						1.50
Reading, .....	.03			.07			.65	.52								1.54
Selsholtzville, .....				.06			.52	.72								2.02
Shawmont, .....	.13						.30	.24								1.60
Smiths' Corners, .....				.27			.25	1.06								2.05
Swiftwater, .....	†						†	1.31								1.86
West Chester, .....	.13						.49	.33								1.27
White Haven, .....				.06			.57	.24								1.25

Daily Precipitation for Pennsylvania, September, 1897—Continued.

Stations.	Day of Month.																Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.		
Susquehanna Basin.																	
Altoona, .....	.01			.27			1.50	.78								3.18	
Aqueduct, .....				.14			1.30	.20								2.66	
Carlisle, .....							1.75	.72								2.97	
Centre Hall, .....			.59	.15			2.39									4.06	
Drifton, .....																	
Dunmore, .....																	
Dushore, .....	.07			.90			1.04	.20								2.53	
Emporium, .....	.10		.28	.38			.47	.98								2.73	
Everett, .....	.04						.80	.48								1.55	
Gettysburg, .....																	
Girardville, .....				.04			.84	.31								2.48	
Gramplan, .....	.55		.22	.09			.87	.99								3.16	
Hallstead, .....	.30			.76		.08	*	1.38								3.94	
Harrisburg, .....	.17			.01			.72	.09								1.30	
Hollidaysburg, .....	.04			.29			.64	1.47								2.75	
Huntingdon, .....	.19			.30			.75	1.70								3.31	
Lawrenceville, .....			.70				1.13									2.44	
Lebanon, .....	.16			.11			.56	.43								1.57	
Le Roy, .....	.02		.05	1.35			.40	.82								3.08	
Lewisburg, .....	.05			.31			.55	.25								2.01	
Lock Haven, .....				.90			.77	1.40								4.21	
Renova, .....	.55		*	.54			.35	1.75								3.69	
Scranton, .....				.02			.35	.19								1.20	
Selinsgrove, .....	.23			.16			.70	.35								2.56	
South Eaton, .....	†			.35			1.09	.44		.03						2.24	
State College, .....	.51		†	.60			.81	1.27								3.60	
Towanda, .....	.11		†	1.03			.53	.93		.03						2.93	
Wellsboro, .....			.20	.75			.45	1.10		†						3.40	
Wilkes-Barre, .....				.14			*	.90								1.49	
Williamsport, .....				.87			.07	1.71								2.99	
York, .....	1.00			.06			1.41	.06								2.73	

Ohio Basin.														
Beaver Dam, .....	.13													0.62
Brookville, .....	.58													2.85
Cannonsburg, .....														0.25
Cassandra, .....	.12													2.86
Confluence, .....														2.56
Davis Island Dam, .....														2.41
Derry Station, .....														2.62
Du Bols, .....	1.31													3.38
Elwood Junction, .....														1.70
Franklin, .....														0.77
Freeport, .....														2.53
Greensboro, .....														0.65
Greenville, .....	1.17													1.91
Indiana, .....	†													2.90
Irwin, .....	†													1.45
Johnstown, .....	.09													3.55
Lock No. 4, .....														1.37
Lycippus, .....														2.34
Oil City, .....	.91													1.53
Parkers' Landing, .....	.21													1.39
Pittsburgh, .....	†													1.65
Ridgway, .....														2.55
Saegerstown, .....	1.47													1.55
Shingle House, .....														2.49
Smethport, .....														
Somerset, .....														1.38
St. Marys, .....														2.85
Uniontown, .....														1.92
Warren, .....														1.63
West Newton, .....	.35													2.17
Potomac Basin.														
Chambersburg, .....	.07													3.08
Lake Basin.														
Erle, .....	.12													0.54

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

## OCTOBER, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 30.14 inches, is .06 above the normal. At the United States Weather Bureau Stations the highest observed was 30.66 inches, at Harrisburg, on the 3d, and the lowest, 29.62 inches, at Erie, on the 11th.

### Temperature.

The means of the daily maximum and minimum temperatures, 66.5 degrees and 41.9 degrees respectively, give a monthly mean of 54.2 degrees, which is 4.1 degrees above the normal, and 5.3 degrees above the corresponding month of 1896.

The average daily range was 24.6 degrees.

The highest monthly mean was 60.9 degrees at Cannonsburg.

The lowest monthly mean was 49.1 degrees, at Dyberry.

The highest temperature recorded during the month was 95 degrees, on the 15th, at Cannonsburg, and on the 16th, at Aqueduct.

The lowest temperature was 16 degrees, on the 18th at Shingle House.

The greatest local monthly range was 71 degrees, at Saegerstown.

The least local monthly range was 47 degrees, at Erie.

The greatest daily range was 53 degrees, at Smethport.

### Precipitation.

The average precipitation for the month, 1.32 inches, is 1.91 inches less than the normal.

The largest totals of rainfall, in inches, were: Reading, 5.93; Coopersburg, 2.65; West Chester, 2.61; Coatesville, 2.60; Doylestown, 2.60; York, 2.60. The least were: Greensboro, trace; Elwood Junction, 0.04; West Newton, 0.05; Lock No. 4, 0.07; Cannonsburg, 0.09; Pittsburgh, 0.13; Warren, 0.13.

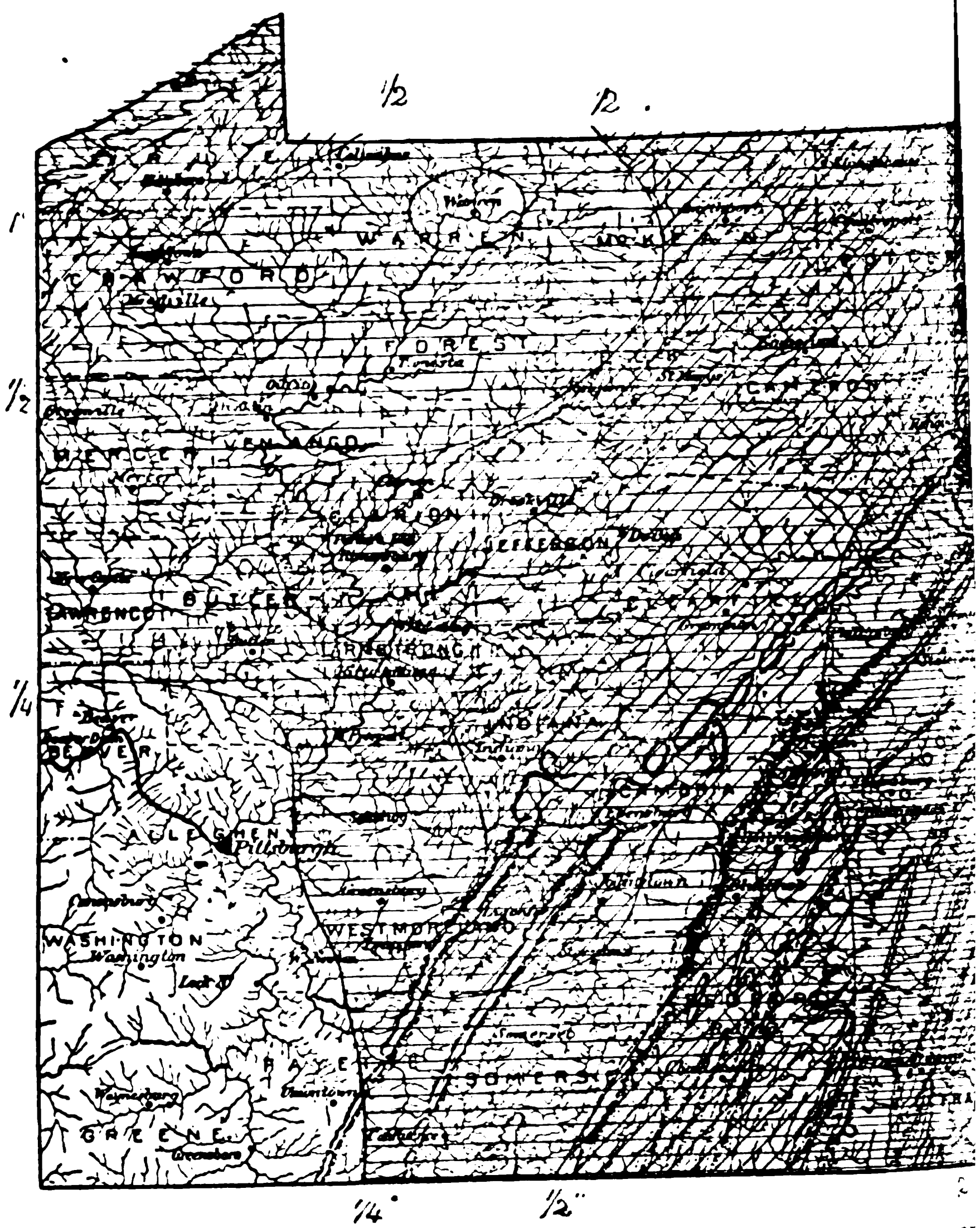
### Wind and Weather.

The prevailing wind was from the west.

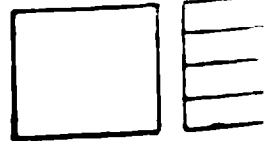
Average number of rainy days, 5; clear, 14; partly cloudy, 8; cloudy, 9.



TOTAL PRECIPITATION



SCALE OF



0 to 1-4 1-4 to 2

ATION, OCTOBER, 1897.



APES, IN INCHES.



1-2 to 1    1 to 2    Over 2



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## Miscellaneous Phenomena.

Thunderstorms.—12, 22, 28.

Hail.—Coatesville, Reedsville, York, 22d.

Snow.—Trace on the 29th, 30th and 31st.

Aurora.—Le Roy, 27; Westtown, 23d.

Coronae.—Lebanon, 13th; Huntingdon and Towanda, 31st.

Solar Halo.—Harrisburg, 10th and 19th; Le Roy, 8th, 18th and 19th.

Lunar Halo.—Carlisle, 9th; Harrisburg, 14th; Philadelphia, Centennial Avenue, 13th.

Climatological Data for Pennsylvania, October, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.				Prevailing direction of wind.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (un-melted).	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.	
Altoona, .....	Blair, .....	1,181	10	54.3	+3.1	88	16	26	31	46	0.75	-1.42	0.36	.....	7	.....	.....	.....	.....	S
Aqueduct, .....	Perry, .....	367	9	55.6	+3.4	95	16	23	18	40	2.34	-1.18	0.75	.....	6	10	12	9	.....	W
Brookville, .....	Jefferson, .....	1,173	13	.....	.....	.....	.....	.....	.....	.....	0.53	-1.79	0.24	.....	5	26	0	5	.....	W
Cannonsburg, .....	Washington, .....	936	25	60.9	+8.6	95	15	33	31	48	0.09	-2.45	0.07	.....	2	26	2	3	.....	W
Carlisle, .....	Cumberland, .....	480	50	54.6	+2.5	88	16	29	18	42	2.05	-1.48	1.10	.....	6	19	5	7	.....	S
Cassandra, .....	Cambria, .....	2,100	.....	52.1	.....	81	16	30	18	40	0.39	.....	0.17	T	5	16	6	9	.....	SW
Centre Hall, .....	Centre, .....	1,100	.....	52.4	.....	87	15	29	18	36	1.78	.....	0.80	T	4	17	0	14	.....	.....
Chambersburg c, .....	Franklin, .....	1,000	35	52.8	+2.4	88	16	23	31	40	2.19	-1.64	0.85	.....	7	9	6	16	.....	W
Coatesville, .....	Chester, .....	380	10	56.0	+5.4	94	16	26	31	47	2.60	-1.25	1.14	.....	6	16	7	8	.....	NE
Confluence, .....	Somerset, .....	1,324	23	53.0	.....	86	17	26	18	43	0.43	-2.56	0.25	.....	4	17	3	11	.....	W
Coopersburg, .....	Lehigh, .....	520	8	56.4	+4.5	88	1	30	31	39	2.65	-1.07	0.95	.....	5	17	6	8	.....	NE
Derry Station, .....	Westmoreland, .....	1,172	.....	56.2	.....	88	16	31	18	48	0.44	.....	0.20	.....	5	12	14	5	.....	W
Drifton, .....	Luzerne, .....	1,633	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	Lackawanna, .....	1,117	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	Sullivan, .....	1,590	.....	.....	.....	90	1	22	30	.....	1.40	.....	0.96	.....	4	18	2	11	.....	N
Dyberry, .....	Wayne, .....	1,100	33	49.1	+2.9	87	16	19	31	51	0.97	-2.38	0.63	T	5	18	5	8	.....	W
Easton, .....	Northampton, .....	325	14	54.4	+2.7	83	16	30	10	34	1.85	-1.45	0.92	.....	7	16	4	11	.....	.....
Edinboro* 1, .....	Erie, .....	1,220	9	54.2	+6.0	80	15	26	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Emporium, .....	Cameron, .....	1,050	10	52.0	+3.0	85	16	24	18	45	0.94	-2.45	0.22	T	7	12	14	5	.....	W
Erie, .....	Erie, .....	1,400	24	56.0	+4.0	82	14	35	18	29	1.24	-2.66	0.80	.....	5	13	12	6	.....	S
Everett b, .....	Bedford, .....	1,060	.....	53.4	.....	88	16	26	18	44	0.93	.....	0.35	.....	6	15	4	12	.....	W
Forks of Neshaminy 1, .....	Bucks, .....	304	9	54.8	+2.7	.....	.....	.....	.....	.....	2.41	-1.41	1.30	.....	7	16	6	9	.....	NW
Franklin, .....	Venango, .....	955	22	53.7	+8.0	84	15	28	18	43	0.28	-2.73	0.18	T	2	21	9	1	.....	W
Gettysburg, .....	Adams, .....	.....	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grampian, .....	Clearfield, .....	1,450	34	52.6	+4.9	82	16	28	18	40	0.68	-2.20	0.34	T	5	12	11	5	.....	NE
Greensboro, .....	Greene, .....	768	9	56.8	.....	87	16	21	31	45	T	-2.94	T	.....	.....	13	15	3	.....	SW

Greenville, .....	Mercer, .....	1,000	6	51.1	+4.3	76	16	28	18	45	0.47	-2.88	0.22	.....	5	17	12	2	W
Hallstead, .....	Susquehanna, .....	.....	.....	50.6	.....	84	16	23	10	43	0.74	.....	0.47	T	2	12	10	9	S
Hamburg, .....	Berks, .....	380	7	56.8	+4.0	89	16	28	31	42	1.79	-1.77	0.98	.....	3	13	10	8	E
Hamlington, .....	Wayne, .....	1,600	9	52.6	+5.2	82	16	28	31	38	1.51	-2.40	0.80	T	9	13	5	13	E
Harrisburg, .....	Dauphin, .....	361	9	56.1	+4.1	86	16	34	31	33	1.85	-1.56	0.60	.....	6	11	9	11	E
Hawley, .....	Wayne, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Holidaysburg, .....	Blair, .....	947	10	54.9	+6.5	91	16	23	31	48	0.57	-3.21	0.20	.....	5	19	2	10	W
Huntingdon, .....	Huntingdon, .....	650	10	52.6	+3.9	88	5	24	22	52	1.74	-1.16	0.50	.....	6	4	20	7	E
Indiana, .....	Indiana, .....	1,350	4	59.0	.....	84	16	33	30	38	0.57	-3.29	0.25	.....	4	19	0	12	SW
Irwin, .....	Westmoreland, .....	884	.....	.....	.....	.....	.....	.....	.....	.....	0.32	.....	0.28	T	3	13	3	15	.....
Johnstown, .....	Cambria, .....	1,184	10	55.4	+3.6	86	16	28	31	44	0.72	-1.70	0.21	T	7	11	8	12	S
Kennett Square, .....	Chester, .....	275	8	56.6	+5.0	92	16	29	31	41	2.19	-1.39	0.83	.....	7	14	8	9	NE
Lancaster, .....	Lancaster, .....	413	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville d, .....	Tioga, .....	1,006	.....	50.0	.....	84	16	22	18	43	1.45	.....	0.63	.....	6	18	1	8	SW
Lebanon, .....	Lebanon, .....	458	10	54.6	+3.8	90	1	28	18	44	2.36	-1.27	0.83	.....	6	13	9	9	SW
Le Roy, .....	Bradford, .....	1,400	9	52.0	+4.2	81	16	28	18	35	1.30	-2.28	0.39	T	6	11	10	10	SW
Lewisburg, .....	Union, .....	450	26	53.4	+4.1	89	16	25	18	41	2.08	-1.05	0.92	.....	6	16	2	13	SW
Lock Haven, .....	Clinton, .....	560	10	55.8	+5.8	87	16	29	18	41	0.89	-2.47	0.37	.....	5	14	1	16	W
Lycippus, .....	Westmoreland, .....	1,420	5	57.8	+4.2	85	16	32	30	43	0.60	-1.39	0.31	.....	6	.....	.....	.....	.....
Mauch Chunk, .....	Carbon, .....	550	8	53.2	+3.6	89	16	25	31	46	2.36	-1.29	1.05	.....	7	16	5	10	W
Philadelphia, .....	Philadelphia, .....	117	26	58.2	+2.2	88	16	39	31	27	1.70	-1.06	0.54	.....	8	13	4	14	NE
1329 Centennial Avenue, .....	Philadelphia, .....	120	7	58.3	+2.3	89	16	38	31	32	2.42	-0.77	1.07	.....	7	12	10	9	NE
Pittsburgh, .....	Allegheny, .....	842	27	59.0	+4.0	87	15	38	30	38	0.13	-2.21	0.12	.....	2	11	16	4	E
Pottstown, .....	Montgomery, .....	150	10	56.9	+4.1	88	16	30	31	38	2.38	-0.92	1.12	.....	6	19	1	11	W
Quakertown g, .....	Bucks, .....	536	23	52.6	.....	88	20	24	31	47	2.29	-1.14	0.88	.....	7	8	10	6	NE
Reading 2, .....	Berks, .....	280	24	53.6	+0.8	.....	.....	.....	.....	.....	5.93	-1.93	4.47	.....	8	.....	.....	.....	.....
Reedsville, .....	Mifflin, .....	.....	.....	52.6	.....	83	16	27	31	42	1.13	.....	1.05	.....	5	18	7	6	SE
Renova, .....	Clinton, .....	672	.....	53.7	.....	86	16	27	18	39	1.00	.....	0.30	T	6	17	9	5	.....
Saegerstown, .....	Crawford, .....	1,200	6	53.6	+5.3	89	2	18	18	52	0.50	-1.96	0.27	T	5	10	8	13	SW
Scranton, .....	Lackawanna, .....	746	.....	53.5	.....	87	16	25	18	46	1.10	.....	0.46	T	5	16	4	11	W
Selinsgrove, .....	Snyder, .....	455	9	53.4	+3.5	86	1	27	18	46	1.89	-1.97	0.64	.....	5	9	15	7	SW
Shingle House g, .....	Potter, .....	1,475	.....	50.5	.....	86	15	16	18	52	0.82	.....	0.43	T	3	11	12	8	NW
Smethport, .....	McKean, .....	1,500	8	50.4	+3.8	85	15	21	18	53	0.65	-3.23	0.25	T	4	13	8	10	NW
Somerset, .....	Somerset, .....	2,250	41	52.4	+5.2	86	16	26	18	47	0.32	-2.69	0.22	.....	2	15	13	3	NW
South Bethlehem, .....	Northampton, .....	339	7	56.0	+4.7	88	1	33	31	40	1.22	-2.03	0.48	.....	4	17	7	7	W
South Eaton, .....	Wyoming, .....	660	8	52.6	+3.7	87	16	27	10	40	1.12	-2.37	0.46	.....	5	20	2	9	SW
State College, .....	Centre, .....	1,191	10	53.6	+4.9	84	16	28	18	39	1.45	-1.60	0.68	.....	4	10	10	11	N
St. Marys a, .....	Elk, .....	1,740	.....	51.4	.....	84	15	25	10	45	0.97	.....	0.53	T	4	15	9	7	SE
Swarthmore, .....	Delaware, .....	190	9	56.2	+3.6	85	16	31	30	31	2.15	-1.79	0.65	.....	.....	5	19	7	N
Swiftwater, .....	Monroe, .....	1,600	.....	51.8	.....	80	16	25	31	43	.....	.....	.....	.....	.....	17	7	7	W
Towanda, .....	Bradford, .....	754	.....	51.8	.....	87	16	24	18	44	1.17	.....	0.38	.....	6	18	2	11	NW
Uniontown f, .....	Fayette, .....	681	10	54.3	.....	81	1	32	30	43	0.22	-3.15	0.13	.....	3	15	4	6	SE
Warren, .....	Warren, .....	1,137	9	.....	.....	.....	.....	25	18	.....	0.13	-3.35	0.04	.....	5	22	0	9	N

Climatological Data for Pennsylvania, October, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.			Prevailing direction of wind.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (un-melted).	Number rainy days.	Number clear days.		Number partly cloudy days.	Number cloudy days.
Wellsboro, .....	Tioga, .....	1,327	19	51.0	+3.1	85	16	24	18	43	0.67	-2.83	0.35	T	5	15	5	11	N
West Chester, .....	Chester, .....	455	43	56.5	+2.8	89	16	33	31	34	2.61	-1.42	1.12	.....	9	12	8	11	N
Westtown, .....	Chester, .....	350	9	55.0	+3.3	87	16	29	31	36	2.42	-1.88	1.04	.....	7	13	6	12	NE
White Haven, .....	Luzerne, .....	1,150	.....	51.6	.....	84	16	24	31	49	1.75	.....	0.90	.....	7	7	18	6	S
Wilkes-Barre, .....	Luzerne, .....	575	13	54.0	+4.3	87	16	27	18	40	1.47	-1.92	0.47	.....	5	10	4	17	SE
Williamsport, .....	Lycoming, .....	530	8	53.5	+4.1	86	16	30	18	36	1.68	-2.64	0.53	.....	6	22	5	4	W
York, .....	York, .....	385	10	55.0	+3.7	88	16	28	18	40	2.60	-0.63	1.00	.....	7	14	10	7	W

\*Extremes of temperature from observed readings of dry thermometers.  
1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4. 2 Mean of 8 a. m. + 8 p. m. ÷ 2.  
The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.  
A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.

Maximum and Minimum Temperatures for Pennsylvania, October, 1897.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		
	Minimum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.		
Altoona, .....	84	44	65	47	64	41	72	32	76	30	68	41	60	43	66	31	64	42	65	31	66	49	66
Aqueduct, .....	86	48	64	45	63	36	68	37	73	36	73	43	64	41	65	34	68	45	62	32	68	54	68
Brookville, .....																							
Cannonsburg, .....	91	47	84	52	75	47	83	35	83	36	82	37	61	48	76	33	74	48	77	39	77	59	77
Carlisle, .....	87	51	65	44	63	32	72	31	75	33	75	40	67	41	67	37	72	42	62	38	67	57	67
Cassandra, .....	77	44	62	44	60	40	67	30	71	31	62	45	55	42	64	34	57	41	60	33	65	50	65
Centre Hall, .....	79	51	72	52	57	37	66	33	75	39	58	45	59	42	58	34	61	47	53	30	57	30	57
Chambersburg, .....							69	29	70	30	74	38	66	36	63	32	67	33	62	33	65	52	65
Coatesville, .....	93	51	58	45	67	36	75	32	80	33	77	42	74	42	69	37	75	41	67	32	76	50	76
Confluence, .....	80	44	82	43	76	42	64	32	74	31	73	31	66	38	64	38	69	39	67	33	71	35	71
Coopersburg, .....	88	58	69	46	63	33	74	35	77	39	72	52	65	45	65	39	70	47	64	33	72	47	72
Derry Station, .....	81	45	80	45	72	43	74	32	80	32	77	42	66	46	58	31	70	44	64	35	73	50	73
Drifton, .....																							
Dunmore, .....																							
Dushore, .....	90		80		65		69		68		68		68		53		54		57		68		
Dyberry, .....	81	44	78	38	66	24	75	24	77	28	68	33	53	36	61	27	57	45	60	21	65	42	65
Easton, .....	82	52	79	46	60	44	65	35	68	34	68	47	64	44	60	37	62	46	56	30	72	54	72
Emporium, .....	81	45	64	42	64	33	71	31	75	30	65	41	53	40	61	36	61	37	61	27	67	44	67
Erle, .....	80	59	65	50	70	44	71	44	78	52	67	52	53	43	70	39	61	40	57	36	76	56	76
Everett, .....	85		65	45	61	36	70	33	72	28	70	39	64	38	66	33	66	37	60	32	67	32	67
Franklin, .....	81	43	69	44	66	38	72	34	75	35	62	46	55	46	61	33	63	45	65	29	74	46	74
Gettysburg, .....																							
Gramplan, .....	80	48	60	46	60	36	60	32	72	32	76	48	54	44	64	28	56	40	58	32	68	54	68
Greensboro, .....	83	72	75	37	70	47	70	47	79	37	78	35	65	39	71	35	69	45	80	35	79	49	79
Greenville, .....	74	34	65	39	65	34	73	30	71	29	60	46	50	35	64	29	52	34	53	28	74	52	74
Hallstead, .....	79	45	63	42	62	29	72	29	72	30	65	45	53	31	59	28	54	29	61	23	68	47	68
Hamburg, .....	88	51	57	52	66	44	75	35	78	36	75	49	69	40	67	41	68	44	63	32	70	52	70
Hamlington, .....	79	59	70	48	63	32	71	34	78	40	67	50	60	42	79	33	56	43	58	29	62	44	62
Harrisburg, .....	86	56	67	44	61	39	69	39	71	40	72	48	65	48	63	42	67	47	60	37	70	51	70
Hawley, .....																							
Holidaysburg, .....	86	40	69	45	65	35	74	30	78	30	71	48	64	40	70	28	68	38	67	28	71	47	71
Huntingdon, .....	82	30	80	34	78	23	83	24	88	36	72	32	74	30	78	38	70	48	68	30	68	32	68

Maximum and Minimum Temperatures for Pennsylvania, October, 1897—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Indiana, .....	68	43	71	48	66	41	68	39	76	56	69	43	63	52	66	51	69	48	72	57	74	63
Irwin, .....																						
Johnstown, .....	84	40	74	42	75	38	75	39	78	34	66	47	60	40	72	38	62	46	66	34	72	42
Kennett Square, .....	89	53	66	49	67	42	78	37	77	36	75	49	77	44	67	41	74	45	67	36	75	50
Lancaster, .....																						
Lawrenceville, .....	76	44	63	42	61	30	66	25	67	29	68	42	55	40	57	32	52	46	57	24	65	45
Lebanon, .....	90	49	67	41	64	30	73	31	75	31	74	43	68	39	64	36	70	41	63	30	67	50
Le Roy, .....	78	56	63	43	62	32	70	35	73	40	64	48	49	37	66	34	51	35	60	28	70	48
Lewisburg, .....	87	48	60	38	65	31	71	33	74	33	73	40	61	38	63	33	67	43	63	27	69	51
Lock Haven, .....	87	46	83	50	66	35	72	36	74	36	73	41	68	42	65	35	65	40	65	30	67	45
Lycippus, .....	80	56	81	53	75	39	66	33	74	44	75	57	64	45	59	36	68	48	61	38	73	51
Mauch Chunk, .....	87	47	56	37	66	30	74	29	76	30	71	36	65	37	64	35	65	39	60	27	66	48
Philadelphia (a), .....	87	60	72	50	62	45	71	46	75	49	73	54	70	52	64	43	71	47	66	41	76	51
Philadelphia (b), .....	87	59	71	52	62	45	71	42	76	44	71	56	68	50	66	42	73	50	64	40	75	51
Pittsburgh, .....	85	50	73	52	68	47	77	40	80	42	67	54	58	48	72	41	68	45	70	40	76	59
Pottstown, .....	88	54	61	45	65	41	70	36	76	38	71	57	68	46	65	41	70	50	62	34	74	50
Quakertown, .....	88	49	57	49	65	34	72	28	76	29	71	41	67	39	64	34	69	41	63	26	75	41
Reedsville, .....	80	44	68	44	67	31	65	33	69	33	69	39	60	40	60	34	62	40	53	30	69	43
Renova, .....	82	45	69	44	64	35	70	35	73	34	70	42	54	45	62	35	61	42	60	29	65	46
Saegerstown, .....	81	33	89	43	70	34	77	25	79	35	75	43	58	40	64	34	62	40	67	21	77	45
Scranton, .....	85	47	70	45	75	33	76	30	77	31	72	39	61	41	63	31	60	44	65	25	68	46
Sallinsgrove, .....	86	40	80	47	63	32	70	33	70	32	75	40	62	43	62	32	65	34	67	28	71	34
Shingle House, .....	80	42	78	32	80	28	76	24	70	22	72	36	66	32	64	36	64	40	66	24	68	34
Smethport, .....																						
Somerset, .....	80	42	70	40	62	38	78	26	73	28	70	40	75	30	76	30	62	40	65	32	68	38
South Bethlehem, .....	88	56	82	54	83	56	86	52	75	37	72	50	66	46	68	43	72	41	68	34	69	46
South Eaton, .....	79	49	64	42	63	31	69	31	71	31	68	49	53	41	59	33	59	33	60	27	67	48
State College, .....	83	51	70	45	61	39	69	30	69	35	66	46	58	43	59	33	59	45	56	30	64	51
St. Marys, .....	82	45	63	40	62	34	70	27	75	30	62	48	49	44	60	27	60	42	58	25	67	45
Swarthmore, .....	83	58	60	45	60	42	67	40	68	49	71	49	69	44	60	46	69	42	62	48	74	57
Swiftwater, .....	79	52	58	36	58	28	67	34	65	40	68	42	68	40	57	32	58	34	46	28	68	42

Tovanda, .....	83	47	65	41	63	31	70	70	74	30	69	49	56	40	60	32	57	41	61	24	68	48
Uniontown, .....	81	44	69	46	58	48	75	34	76	33	66	49	57	40	70	33	68	41	76	31	72	50
Warren, .....	77	46	77	47	72	34	74	29	76	32	66	46	62	38	60	32	64	46	63	26	76	47
Wellsboro, .....	76	43	65	43	68	28	69	26	73	31	69	46	48	32	62	30	63	36	62	25	62	46
West Chester, .....	86	57	66	48	62	43	70	41	75	48	71	53	68	47	64	39	71	48	62	37	73	49
Westtown, .....	84	54	67	48	59	48	64	36	71	35	70	50	67	42	61	40	69	45	60	37	74	49
White Haven, .....	84	45	62	40	65	25	75	27	76	27	70	36	70	38	62	35	59	42	58	25	65	47
Wilkes-Barre, .....	82	49	70	47	63	31	70	32	74	34	71	40	62	40	60	31	62	46	62	27	70	48
Williamsport, .....	83	47	62	51	62	31	65	33	70	34	71	41	56	44	61	33	62	41	61	22	70	50
York, .....	80	49	70	48	67	37	69	32	73	33	75	43	70	40	65	35	68	43	63	34	72	52



Maximum and Minimum Temperatures for Pennsylvania, October, 1897—Continued.

Stations.	13.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	75	55	77	44	83	42	87	46	88	55	71	41	63	28	60	33	65	47	61	46	56	46
Aqueduct, .....	78	67	74	46	76	45	89	49	95	55	80	51	59	28	63	34	61	53	60	50	63	54
Brookville, .....																						
Cannonsburg, .....	82	64	86	47	88	51	95	60	92	61	75	47	75	36	74	45	70	52	66	51	73	47
Carlisle, .....	75	62	76	49	77	44	86	48	88	55	70	40	61	29	55	33	57	48	55	49	53	46
Cassandra, .....	69	60	69	41	80	47	79	48	81	52	54	40	59	30	66	37	60	53	57	48	56	47
Centre Hall, .....	71	57	68	48	73	43	87	52	84	59	74	43	55	29	59	35	64	48	57	47	53	47
Chambersburg, .....	73	56	77	45	78	45	84	45	88	49	67	42	59	28	55	31	58	47	57	48	57	44
Coatesville, .....	72	60	82	52	76	42	89	44	94	55	67	40	67	30	61	34	58	51	59	51	51	47
Confluence, .....	76	34	75	42	76	41	83	42	85	46	86	47	61	26	65	29	60	35	60	36	68	44
Coopersburg, .....	70	64	78	45	76	47	87	52	87	64	64	18	62	34	60	35	61	36	59	50	54	45
Derry Station, .....	73	60	78	42	76	47	85	52	88	56	73	42	65	31	71	41	70	46	71	54	60	45
Drifton, .....																						
Dunmore, .....																						
Dushore, .....	69		67		72		80		81		67		57		68		60		61		55	40
Dyberry, .....	68	62	66	39	78	33	84	39	87	52	52	36	60	22	68	28	53	48	58	45	45	40
Easton, .....	70	63	69	55	67	47	78	49	83	60	66	45	55	31	59	33	61	53	60	50	55	46
Emporium, .....	74	54	67	42	80	36	85	60	84	54	71	35	61	24	61	31	64	45	58	43	56	42
Erie, .....	66	55	58	44	82	57	80	72	79	50	50	40	55	35	64	48	62	53	58	50	56	47
Everett, .....	76	55	76	43	80	44	85	48	88	49	73		59	26	58	31	55	47	62	50	61	50
Franklin, .....	71	60	67	41	81	40	84	50	78	35	73	38	66	28	69	37	70	46	63	51	59	46
Gettysburg, .....																						
Gramplan, .....	70	58	68	50	74	42	82	50	82	60	60	38	58	28	66	34	66	50	58	44	56	44
Greensboro, .....	77	60	75	40	81	41	85	45	87	47	75	45	70	27	70	43	70	40	66	50	64	43
Greenville, .....	68	46	54	34	67	40	70	52	76	56	59	35	51	28	58	45	65	48	55	49	54	42
Hallstead, .....	72	59	64	41	74	36	83	50	84	54	73	35	59	24	67	31	57	41	57	49	51	44
Hamburg, .....	71	69	75	55	76	44	85	49	89	56	60	51	60	30	61	35	62	54	56	51	52	50
Hamlington, .....	65	62	66	48	77	42	80	55	82	63	72	40	58	28	64	40	58	49	52	45	53	42
Harrisburg, .....	74	62	73	55	75	51	84	54	86	63	75	42	58	36	58	40	60	51	55	50	52	46
Hawley, .....																						
Holidaysburg, .....	78	57	80	40	86	38	91	47	91	60	70	39	67	23	62	29	64	44	64	50	62	46

Huntingdon, .....	82	61	84	35	84	40	82	48	80	42	75	50	62	26	62	25	60	26	64	23	60	24
Indiana, .....	74	45	82	58	84	62	83	58	84	61	78	52	73	35	72	54	70	56	63	41	61	36
Irwin, .....																						
Johnstown, .....	73	55	73	45	84	42	84	48	86	52	67	45	63	29	63	36	64	50	61	51	57	49
Kennett Square, .....	70	58	80	52	76	45	87	46	92	56	73	42	64	31	61	36	60	52	59	51	56	47
Lancaster, .....																						
Lawrenceville, .....	70	64	64	37	77	34	82	54	84	52	60	39	54	22								
Lebanon, .....	71	64	76	53	76	46	85	47	89	54	70	42	60	28	59	34	60	51	54	49	51	44
Le Roy, .....	70	60	66	46	75	41	80	53	81	62	62	34	56	28	66	38	67	47	57	43	56	42
Lewisburg, .....	77	54	74	44	76	39	86	49	89	53	69	42	62	25	60	30	64	48	55	50	55	46
Lock Haven, .....	78	64	75	45	75	40	83	51	87	55	74	44	64	29	60	33	65	48	65	58	58	46
Lycippus, .....	74	53	73	47	72	57	82	65	85	67	84	41	57	36	68	49	71	55	71	51	62	44
Mauch Chunk, .....	70	65	74	48	78	38	86	47	89	52	56	45	60	29	63	31	62	49	57	50	50	43
Philadelphia (a), .....	73	63	77	59	77	54	81	55	88	61	68	45	60	40	62	47	60	55	62	52	56	49
Philadelphia (b), .....	73	64	78	59	76	53	80	54	89	61	73	50	63	38	62	46	60	56	63	51	57	48
Pittsburgh, .....	75	61	71	48	86	53	87	61	87	60	60	45	67	31	73	49	70	56	62	53	59	47
Pottstown, .....	72	64	76	60	75	47	83	49	88	58	62	44	61	33	62	38	62	54	60	52	52	46
Quakertown, .....	70	62																				
Reedsville, .....	74	60	71	43	74	42	83	51	83	41	63	42	72	30	58	32	63	40	62	50	52	48
Renova, .....	76	64	71	39	78	40	81	51	86	54	69	42	62	27	63	30	65	32	57	50	58	46
Saegertown, .....	70	56	69	29	85	35	87	59	86	50	80	36	66	18	70	36	69	41	64	44	63	41
Seranton, .....	72	64	70	46	78	38	85	49	87	59	76	42	59	25	68	33	60	51	55	47	51	43
Sellingsgrove, .....	74	54	74	40	72	40	74	42	78	40	76	33	64	27	76	30	64	44	62	48	64	48
Shingle House, .....	68	34	68	38	78	34	86	38	80	38	70	30	52	16	60	28	64	28	64	38	65	36
Smethport, .....																						
Somerset, .....	70	42	73	40	84	48	84	52	86	46	64	35	62	26	65	32	70	40	66	36	58	40
South Bethlehem, .....	78	50	74	50	76	45	85	45	85	47	72	44	69	28	62	37	65	39	69	40	58	39
South Eaton, .....	71	65	67	45	75	39	85	55	87	55	68	50	60	28	65	32	60	50	55	48	52	44
State College, .....	74	61	70	47	75	44	84	56	84	61	74	41	57	28	57	37	63	48	57	48	55	46
St. Marys, .....	71	57	68	39	79	39	84	50	83	45	53	26	60	46	64	33	64	45	58	50	59	40
Swarthmore, .....	70	57	74	52	70	51	74	57	85	54	60	38	57	40	62	48	60	52	64	53	55	49
Swiftwater, .....	65	61	62	42	65	40	78	48	80	54	68	40	54	30	60	36	54	49	56	48	48	42
Towanda, .....	65	55	68	44	78	36	85	50	87	52	52	42	58	24	64	32	58	48	53	45	50	43
Uniontown, .....																						
Warren, .....	72	60	76	42	82	39	86	49	86	59												
Wellsboro, .....	70	56	71	38	77	37	77	53	85	55	58	34										
West Chester, .....	69	62	76	58	72	50	84	50	89	62	72	45	60	35	60	42	60	52	58	50	58	46
Westtown, .....	69	59	73	54	70	47	81	46	87	60	71	46	57	34	60	37	59	53	59	51	53	42
White Haven, .....	68	62	68	47	70	37	83	45	84	51	68	37	60	27	64	32	58	48	60	49	50	42
Wilkes-Barre, .....	74	63	70	45	78	39	85	50	87	55	76	40	59	27	67	33	62	50	58	50	55	44
Williamsport, .....	75	61	71	47	74	43	81	45	86	55	58	46	61	30	59	34	61	48	54	49	52	49
York, .....	72	65	73	51	75	44	83	53	88	55	69	48	59	28	61	34	60	53	56	50	53	48

Maximum and Minimum Temperatures for Pennsylvania, October, 1897—Continued.

Stations.	23.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	54	42	58	37	59	44	67	45	71	42	69	53	65	40	52	34	60	26	67.4	41.2
Aqueduct, .....	66	53	59	42	55	51	58	52	69	38	62	54	60	40	51	34	59	30	66.7	44.4
Brookville, .....	67	39	73	38	65	44	76	41	81	46	75	44	65	38	67	34	71	33	76.7	45.1
Cannonsburg, .....	57	44	55	39	53	49	69	51	69	41	60	53	57	43	50	36	59	31	66.2	43.1
Carlisle, .....	51	44	56	37	56	43	63	45	54	40	67	45	46	39	50	33	59	35	62.3	41.9
Cassandra, .....	52	44	57	36	46	40	63	42	65	38	65	52	52	46	46	35	54	30	62.6	42.3
Centre Hall, .....	55	44	56	37	56	48	65	48	65	44	59	51	58	42	57	31	59	23	65.0	40.6
Chambersburg, .....	58	46	52	44	54	49	67	52	66	48	69	52	62	47	55	35	60	26	68.7	43.4
Coatesville, .....	62	36	61	30	54	38	60	33	67	37	73	38	72	42	57	29	60	31	69.2	36.8
Confluence, .....	57	45	53	43	56	47	75	51	74	44	67	49	61	44	52	39	60	30	67.5	45.2
Coopersburg, .....	59	34	65	36	65	35	64	39	73	40	71	46	70	47	50	32	60	32	70.5	42.0
Derry Station, .....	57	36	55	30	59	37	62	33	65	27	61	44	55	37	45	22	53	26	62.9	.....
Drifton, .....	58	37	55	27	63	42	67	30	67	30	61	30	48	42	42	26	35	19	63.1	35.1
Dunmore, .....	53	45	53	43	55	50	63	48	63	44	65	49	63	46	48	36	52	34	63.7	45.1
Dushore, .....	56	40	61	37	65	43	68	35	69	34	70	38	56	42	44	32	57	27	65.6	38.4
Dyberry, .....	58	38	56	42	53	45	55	44	68	50	69	50	41	40	54	37	64	41	63.8	48.3
Easton, .....	53	46	55	38	56	49	65	50	66	38	69	53	65	44	53	31	60	26	66.5	43.4
Emporium, .....	60	40	64	31	61	33	70	36	70	33	71	40	58	44	53	33	64	30	67.6	39.8
Erle, .....	52	42	54	36	60	46	64	46	61	40	68	52	52	40	44	34	54	28	63.2	42.0
Everett, .....	54	47	57	47	62	32	67	37	75	40	74	42	70	40	60	25	71	21	71.9	41.6
Franklin, .....	69	33	63	32	64	31	69	31	70	41	71	44	58	39	54	34	73	43	63.6	28.6
Gettysburg, .....	61	38	57	31	61	40	67	32	69	33	66	39	56	28	56	27	57	27	64.6	36.7
Gramplan, .....	59	48	59	46	61	57	66	54	67	44	65	57	59	54	54	46	59	28	66.8	46.9
Greensboro, .....	54	39	50	33	55	46	63	43	65	40	58	45	62	39	41	32	52	28	62.9	42.4
Greenville, .....	56	46	58	44	58	50	68	53	66	45	59	53	58	44	48	38	57	34	65.5	46.7
Hallstead, .....	56	45	60	36	55	43	71	45	73	33	74	54	68	43	57	33	63	23	70.2	39.6
Hamburg, .....	54	45	59	36	54	43	61	24	72	36	76	36	70	32	62	36	58	30	71.1	34.1
Hamilton, .....	56	46	58	44	58	50	68	53	66	45	59	53	58	44	48	38	57	34	65.5	46.7
Harrisburg, .....	56	46	58	44	58	50	68	53	66	45	59	53	58	44	48	38	57	34	65.5	46.7
Hawley, .....	56	45	60	36	55	43	71	45	73	33	74	54	68	43	57	33	63	23	70.2	39.6
Holidaysburg, .....	55	28	58	24	54	26	61	24	72	36	76	36	70	32	62	36	58	30	71.1	34.1
Huntingdon, .....	55	28	58	24	54	26	61	24	72	36	76	36	70	32	62	36	58	30	71.1	34.1

Indiana, .....	66	38	71	52	65	42	75	47	69	49	66	43	66	36	54	33	61	35	70.5	47.5
Irwin, .....	55	40	63	39	63	45	70	42	72	38	73	47	73	40	53	33	62	28	69.0	41.9
Johnstown, .....	59	46	52	44	55	46	62	50	61	46	66	51	66	50	53	35	59	29	68.3	45.0
Kennett Square, .....																				
Lancaster, .....	56	36	58	41	59	42	62	38	64	36	67	35	67	39	45	31	42	28	62.1	38.0
Lawrenceville, .....	58	44	56	42	54	51	63	52	67	44	61	53	61	45	50	35	58	29	66.4	42.9
Lebanon, .....	60	40	55	33	56	40	60	40	68	38	70	48	70	34	46	30	56	31	63.2	40.8
Le Roy, .....	61	43	58	29	54	44	69	43	70	34	63	54	63	42	49	33	56	26	66.4	40.4
Lewisburg, .....	58	47	63	39	62	43	72	36	78	38	71	48	71	45	50	34	60	30	69.3	42.2
Lock Haven, .....	59	42	59	37	63	41	64	40	71	43	71	54	71	44	51	32	59	39	69.0	46.5
Lycippus, .....	58	44	59	37	57	52	69	48	70	40	65	45	65	43	49	35	56	25	65.6	40.7
Mauch Chunk, .....	54	47	50	47	57	49	64	52	60	48	67	53	67	45	52	41	59	39	66.9	49.6
Philadelphia (a), .....	56	47	51	47	56	48	64	52	61	48	67	53	67	46	55	40	58	38	67.3	49.3
Philadelphia (b), .....	58	42	65	41	64	45	70	42	72	50	74	54	74	40	59	38	71	43	70.0	48.0
Pittsburgh, .....	60	46	55	47	56	52	68	54	68	44	68	54	68	45	60	40	58	30	67.1	46.7
Pottstown, .....	58	42	52	41	56	42	63	48	68	41	69	47	69	48	49	34	58	24	65.3	39.8
Quakertown, .....	56	48	60	38	53	43	66	44	64	36	65	43	65	47	51	31	57	27	65.0	40.2
Reedsville, .....	57	48	65	38	67	42	70	37	72	39	71	43	71	44	46	37	57	30	66.6	40.8
Renova, .....	59	31	63	25	68	28	70	28	74	28	72	34	72	40	66	30	66	28	71.4	35.8
Saegertown, .....	61	42	56	32	57	46	63	42	71	41	65	41	65	40	40	32	58	25	66.7	40.3
Scranton, .....	64	46	70	40	56	48	65	45	76	37	61	47	61	40	50	35	53	28	68.0	38.9
Selinsgrove, .....	61	37	64	32	.....	30	.....	36	.....	30	.....	28	.....	28	.....	26	.....	28	69.3	31.7
Shingle House, .....																				
Smethport, .....	50	40	58	35	62	40	66	42	68	40	64	36	64	32	56	30	60	26	67.7	37.0
Somerset, .....	59	42	58	37	54	38	56	39	70	36	69	42	69	54	58	36	54	33	69.9	43.4
South Bethlehem, .....	61	43	55	35	61	47	66	41	70	33	61	45	61	40	47	31	56	28	64.4	40.9
South Eaton, .....	52	44	56	38	56	44	63	41	67	38	66	54	66	41	48	35	55	30	64.2	42.9
State College, .....	51	42	63	27	60	41	66	32	69	34	67	41	67	39	44	32	.....	27	64.3	38.4
St. Marys, .....	56	47	50	48	56	52	64	50	61	50	66	56	66	42	51	31	56	45	64.2	48.1
Swarthmore, .....	68	28	67	32	66	49	78	49	78	35	76	40	76	41	58	30	50	25	63.8	37.9
Swiftwater, .....	59	45	59	37	62	44	65	41	66	36	65	42	65	41	46	31	55	30	63.9	39.7
Towanda, .....	60	39	64	43	60	37	68	43	72	49	73	49	73	37	60	32	63	33	67.0	41.6
Unlontown, .....																				
Warren, .....	58	40	63	30	60	44	64	42	73	32	76	40	76	40	48	32	55	30	64.1	38.0
Wellsboro, .....	56	46	50	45	54	47	65	50	62	46	64	53	64	46	50	39	55	33	65.8	47.2
West Chester, .....	55	46	50	45	54	48	64	50	61	47	64	52	64	46	49	37	54	29	61.3	45.6
Westtown, .....	58	40	55	34	54	44	68	44	70	40	62	44	62	42	48	31	53	24	64.4	38.9
White Haven, .....	61	41	57	34	53	47	68	42	72	38	64	50	64	45	59	32	58	27	66.8	41.2
Wilkes-Barre, .....	60	47	59	38	62	46	68	38	70	37	64	51	64	48	53	37	54	32	64.4	42.6
Williamsport, .....	54	46	55	41	56	49	65	53	63	43	62	53	62	45	50	35	58	29	65.8	44.2
Yoik, .....																				

Daily Precipitation for Pennsylvania, October, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....												.37				
Browers' Lock, .....												.31				
Coatesville, .....												.46				
Coopersburg, .....						†						.78				
Doylestown, .....						†						.46				
Dyberry, .....						†	.11					.63				
Easton, .....							†				.02	.92				
Forks of Neshaminy, .....												.46				
Frederick, .....												.40				
Hamburg, .....										.24		.98				
Hamlington, .....							.10	.07				.80	.02			
Hawley, .....																
Honesdale, .....																
Kennett Square, .....												.44				
Lansdale, .....												.49				
Mauch Chunk, .....							.14			.03		1.05				
Ottsville, .....												.42				
Philadelphia (a), .....		†					†				†	.41				
Philadelphia (b), .....		†					†				†	.45	+			
Point Pleasant, .....												.59				
Pottstown, .....												.60				
Quakertown, .....		†					†					.88				
Reading, .....		.02									.01	4.47				
Seisholtzville, .....												.76				
Shawmont, .....												.46				
Smiths' Corners, .....												.36				
Swiftwater a, .....						†					†	2.20				
West Chester, .....		.04										.34				
White Haven, .....							.03				.05	.90				

Susquehanna Basin.					
Altoona,			.14		.04
Aqueduct,			.03		.55
Carlisle,			.10		.22
Centre Hall,			.12	.61	
Drifton,					
Dunmore,					
Dushore,			.22		.96
Emporium,			.11		.11
Everett,			†	.01	.35
Gettysburg,					
Girardville,			.31	.25	.40
Grampian,					.18
Hallstead,		.04	†		.47
Harrisburg,			†		.36
Hollidaysburg,					.10
Huntingdon,		.13			.33
Lawrenceville c,	.08		.21		.07
Lebanon,			†	.02	.75
Le Roy,			.27		.39
Lewisburg,			.09		.32
Lock Haven,			.07		.37
Reedsville,			.01	†	.02
Renova,			.04		.30
Scranton,			.15		.25
Selinsgrove,			.04		.50
South Eaton,			.12		.32
State College,		†	.17		.41
Towanda,			.19		.18
Wellsboro,			.10		.05
Wilkes-Barre,			.25		.30
Williamsport,			.10	*	.82
York,			†	.03	.78
Ohio Basin.					
Beaver Dam,			.05		.05
Brookville,			.02		.04
Cannonsburg,				.07	†
Cassandra,			.02		.03
Confluence,					.12
Davis Island Dam,			.15	.01	†
Derry Station,			.04		.12
Elwood Junction,			.01		.03
Franklin,			†		.18

Daily Precipitation for Pennsylvania, October, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Freeport, .....							.05						.09			
Greensboro, .....							†				†	.10				
Greenville, .....							.07					.22				
Indiana, .....											†	.11				
Irwin, .....											†	†				
Johnstown, .....							.02				†	.21				
Lock No. 4, .....							†							.07		
Lycippus, .....						.02										
Oil City, .....							.05	†			.03	.08				
Parkers' Landing, .....							†	†				.07				
Pittsburgh, .....							.12				†	.21	.14			
Ridgway, .....							.04					.01				
Saegerstown, .....												.15				
Shingle House, .....							.06					.27		.02		
Smethport, .....							.25					.43				
Somerset, .....							.10					.25				
St. Marys, .....							.04				†	.16				
Unlontown e, .....							†					.06	†	†	†	†
Warren, .....							.04					.01				
West Newton, .....							.03					†	†			
Potomac Basin.																
Chambersburg, .....												.63				
Lake Basin.																
Erle, .....					†		.07					.80				†

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

Maximum and Minimum Temperatures for Pennsylvania, October, 1897—Continued.

Stations.	Day of Month.															
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Total.
Delaware Basin.																
Bethlehem, .....						.48		.16	.21							1.22
Browsers' Lock, .....				.08		.49		.16	1.26				.07			2.37
Coatesville, .....				.18		.55		.24	1.14				.03			2.60
Coopersburg, .....						.95	.45	.08	1.14							2.65
Doylestown, .....						.41		.25	1.48							2.60
Dyberry, .....				.05		.08			†				.10	†		0.97
Easton, .....				.01	†	.18	.27	.03	.42				†			1.85
Forks of Neshaminy, .....				.05		.34	.03	.20	1.30				.03			2.41
Frederick, .....				.03		.45		.12	1.03				.05			2.08
Hamburg, .....				†	†	.57	†		†							1.79
Hamlington, .....				.10		.15	.12		.08			.07	†			1.51
Hawley, .....																
Honesdale, .....																
Kennett Square, .....				.20	.01	.36		.30	.83	.05						2.19
Lansdale, .....				.11		.51		.20	1.17							2.48
Mauch Chunk, .....						.37	.03		.63				.11			2.36
Ottsville, .....				.05		.45		.09	.53							1.54
Philadelphia (a), .....				.22		.23	.06	.20	.54	.02		†	.02			1.70
Philadelphia (b), .....				.19	†	.30	†	.25	.96	.02		†	.25	†		2.42
Point Pleasant, .....						.31	.30	.08	.48				.03			1.79
Pottstown, .....				.06		.35		.20	1.12				.05			2.38
Quakertown, .....				.03		.45	.12	†	.75	.01			.05			2.29
Reading, .....				.01		.81		.04	.55				.02			5.93
Seisholtzville, .....						.84		.06	.38							2.04
Shawmont, .....				.11		.27		.25	.97				.04			2.10
Smiths' Corners, .....						.35	.31	.12	.48				.06			1.68
Swiftwater a, .....						†			†							
West Chester, .....				.13	.01	.45		.45	1.12	.02			.05			2.61
White Haven, .....					.03	.50			.12				.12			1.75



Maximum and Minimum Temperatures for Pennsylvania, October, 1897—Continued.

Stations.	Day of Month.															Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	
Susquehanna Basin.																
Altoona, .....				.05	.09	.36			.03				.04			0.75
Aqueduct, .....				†	.23	.38			.75				.40	†		2.34
Carlisle, .....				.15	.03	1.10			.45							2.05
Centre Hall, .....				.25		.80								†		1.78
Drifton, .....																
Dunmore, .....																
Dushore, .....				.08	†							.14				1.40
Emporium, .....				.14	.21	.22						.10		.05		0.94
Everett, .....				.06	.17				.14				.18			0.93
Gettysburg, .....																
Girardville, .....					.12	.30			.48			.04	.08			1.98
Gramplan, .....				*	.34	.12								†		0.68
Hallstead, .....					†	†										
Harrisburg, .....				.05	.06	.60	†		.25	†		†	.27	†		0.74
Holidaysburg, .....				.07	.15	.05			.20							1.35
Huntingdon, .....				.20	.28	.30			.50							0.57
Lawrenceville c, .....			†	†	†	.63	.31						.15			1.74
Lebanon, .....				†	.10	.83			.63	†		†	.03	†		1.45
Le Roy, .....				.09	.09	.35						.11		†		2.36
Lewisburg, .....					.32	.92			.40				.03			1.30
Lock Haven, .....				.04	*	.41										2.08
Reedsville, .....				†	†	1.05	.01	†	.04							0.89
Renova, .....				.10	.09	.19						.28		†		1.13
Scranton, .....						.46			.14				.10	†		1.00
Selinsgrove, .....					.17	.64			.54							1.10
South Eaton, .....				.02		.46							.20			1.89
State College, .....				†	.19	.68										1.12
Towanda, .....				.14	.05	.38										1.45
Wellsboro, .....				†	.15	.35	†					.02	†	.23		1.17
Wilkes-Barre, .....						.47			.30				.15	†		0.67
Williamsport, .....			†		.14	.53						.09				1.47
York, .....				.10	.03	.58		†	1.00		†	†	.08			1.65
																2.60

Ohio Basin.														
Beaver Dam, .....														0.20
Brookville, .....														0.53
Cannonsburg, .....						.09							.24	
Cassandra, .....													.02	.09
Confluence, .....													.01	0.39
Davis Island Dam, .....													.06	0.43
Derry Station, .....						†								0.20
Elwood Junction, .....						.06							.20	0.44
Franklin, .....						†								0.04
Freeport, .....													.10	0.28
Greensboro, .....						.02								0.29
Greenville, .....						.06							†	†
Indiana, .....						*							.08	0.47
Irwin, .....						†								0.57
Johnstown, .....						.01							.03	0.32
Lock No. 4, .....						.11							.06	0.72
Lycippus, .....													†	0.07
Oil City, .....						.04							.12	0.60
Parkers' Landing, .....						.06							.10	0.37
Pittsburgh, .....													.39	0.77
Ridgway, .....						†							†	0.13
Saegerstown, .....						.07							.18	0.59
Shingle House, .....						.10								0.50
Smethport, .....						†								0.82
Somerset, .....						.10							.20	0.65
St. Marys, .....						.53								0.32
Uniontown e, .....						.03							.24	0.97
Warren, .....													.13	0.22
West Newton, .....						.04							.03	0.13
Potomac Basin.														
Chambersburg, .....													.02	2.19
Lake Basin.														
Erie, .....						.04							†	1.24

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

## NOVEMBER, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 30.11 inches, is normal. At the United States Weather Bureau Stations the highest observed was 30.62 inches, at Philadelphia, on the 28th, and the lowest, 29.15 inches, at Erie, on the 9th.

### Temperature.

The means of the daily maximum and minimum temperatures, 50.0 degrees and 33.1 degrees respectively, give a monthly mean of 41.6 degrees, which is 1.8 degrees above the normal, and 4.4 degrees above the corresponding month of 1896.

The average daily range was 16.9 degrees.

The highest monthly mean was 46.2 degrees, at Philadelphia, Centennial Avenue.

The lowest monthly mean was 36.4 degrees, at Dyberry.

The highest temperature recorded during the month was 76 degrees, on the 4th, at Cannonsburg.

The lowest temperature was 2 degrees, on the 24th, at Dyberry.

The greatest local monthly range was 64 degrees, at Dyberry.

The least local monthly range was 42 degrees, at Cassandra, Centre Hall and Harrisburg.

The greatest daily range was 48 degrees, at Shingle House.

### Precipitation.

The average precipitation for the month, 5.28 inches, is 2.13 inches more than the normal.

The largest totals of rainfall, in inches, were: Hamburg,, 7.04; Seisholtzville, 6.99; Coopersburg, 6.80; Swiftwater, 6.72; Warren, 6.60; Mauch Chunk, 6.59. The least were: Reedsville, 2.37; Towanda, 2.80; Hallstead, 3.41; Lawrenceville, 3.47; Dushore, 3.74; Le Roy, 3.81.

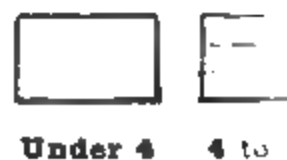
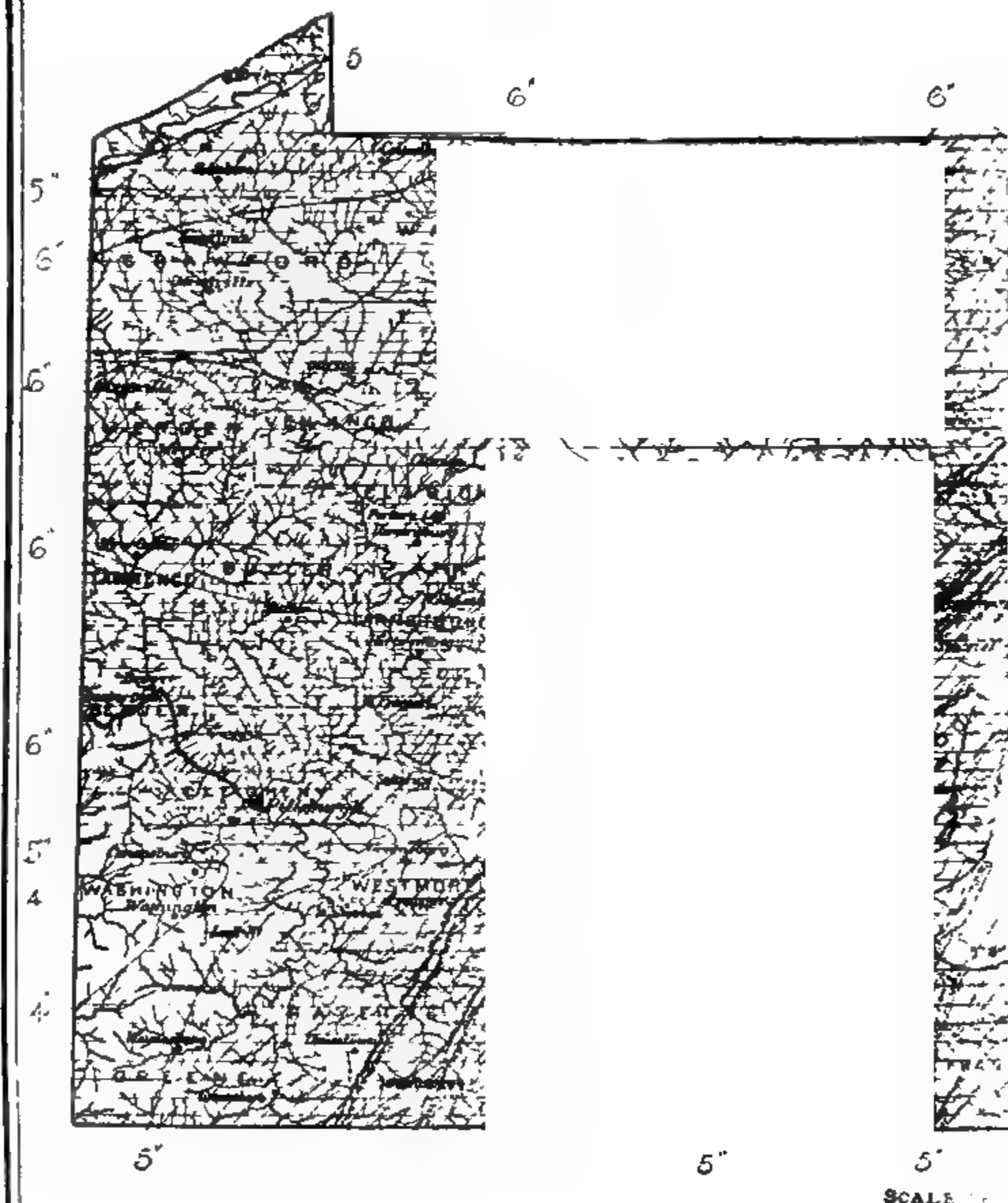
### Wind and Weather.

The prevailing wind was from the west.

Average number of rainy days, 14; clear, 6; partly cloudy, 8; cloudy, 16.



# TOTAL PRECIPIT.



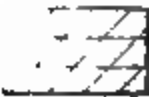
ION, NOVEMBER, 1897.

4"

4"



IN INCHES



5 to 6



Over 6



**Miscellaneous Phenomena.**

**Thunderstorms.**—2, 3, 8, 9, 11, 14.

**Hail.**—Derry Station, Emporium, Swiftwater, 11th; Dushore, 2d, 11th, 16th; Towanda, 3d.

**Snow.**—5, 11, 12, 13, 14, 16, 17, 18, 19, 22, 23, 24, 25, 27, 28, 29, 30.

**Aurora.**—Le Roy, 17.

**Solar Halo.**—Carlisle, 18th; Harrisburg, 10th; Philadelphia, Centennial Avenue, 25th.

**Lunar Halo.**—Carlisle and West Chester, 10th; Pittsburgh, 2d, 10th, 30th.



Climatological Data for Pennsylvania, November, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing direction of wind.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.		Number partly cloudy days.	Number cloudy days.
Altoona, .....	Blair, .....	1,181	10	40.2	+1.0	66	20	19	28	32	5.36	+2.35	1.49	.....	14	.....	.....	.....	NW
Aqueduct, .....	Perry, .....	367	9	44.4	+2.8	69	2	20	28	31	5.87	+2.71	2.55	2.4	13	4	13	13	W
Brookville, .....	Jefferson, .....	1,173	13	.....	.....	.....	.....	.....	.....	.....	5.36	+2.15	0.81	3.2	18	12	0	18	SW
Cannonsburg a, .....	Washington, .....	930	25	46.1	+6.4	76	4	18	30	40	3.89	+1.44	1.20	T	12	12	7	10	S
Carlisle, .....	Cumberland, .....	480	50	42.4	+1.9	67	4	21	28	30	4.07	+0.75	1.37	1.0	14	12	8	10	NW
Cassandra, .....	Cambria, .....	2,100	.....	40.2	.....	61	21	19	24	29	4.88	.....	1.05	5.0	17	5	6	19	.....
Centre Hall, .....	Centre, .....	1,100	.....	40.6	.....	62	4	20	28	27	5.43	.....	1.16	4.0	12	6	4	20	.....
Chambersburg, .....	Franklin, .....	1,000	35	41.4	-0.3	66	2	18	28	36	5.28	+2.78	2.30	.....	13	5	5	20	W
Coatesville, .....	Chester, .....	380	10	43.8	+2.4	73	16	21	24	29	5.83	+1.97	2.50	1.5	16	11	12	7	W
Confluence, .....	Somerset, .....	1,324	23	40.0	.....	69	27	13	25	41	5.89	+2.70	1.08	1.0	18	6	3	21	W
Coopersburg, .....	Lehigh, .....	520	8	44.8	+3.9	72	4	20	24	33	6.80	+3.64	3.50	2.1	14	12	5	13	NW
Derry Station a, .....	Westmoreland, .....	1,172	.....	44.0	.....	69	27	18	30	37	5.76	.....	0.99	0.2	17	5	9	16	W
Drifton, .....	Luzerne, .....	1,633	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	Lackawanna, .....	1,117	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	Sullivan, .....	1,590	.....	38.0	.....	65	2	14	24	33	3.74	.....	0.96	1.5	12	7	6	17	SW
Dyberry, .....	Wayne, .....	1,100	33	36.4	+1.4	66	4	2	24	39	5.36	+2.26	1.60	5.3	13	4	10	16	NW
Easton, .....	Northampton, .....	323	14	42.2	+1.0	64	2	17	24	32	6.20	+2.70	1.82	2.5	12	3	12	15	.....
Edinboro* 1, .....	Erle, .....	1,220	9	37.9	+3.1	60	4	16	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	W
Emporium, .....	Cameron, .....	1,050	10	40.6	+1.1	65	5	18	30	32	5.13	+1.69	1.02	4.1	16	5	14	11	W
Erle, .....	Erle, .....	1,400	24	41.6	+0.6	66	4	22	30	27	4.62	+0.54	0.77	.....	19	1	6	23	S
Everett b, .....	Bedford, .....	1,060	.....	41.0	.....	67	26	17	28	38	4.58	.....	1.26	T	14	8	10	10	NW
Forks of Neshaminy 1 c, .....	Bucks, .....	304	9	44.8	+2.0	.....	.....	.....	.....	.....	5.12	+1.18	1.61	2.0	14	8	8	14	W
Franklin, .....	Venango, .....	955	22	42.0	.....	68	16	19	30	34	5.45	+2.00	1.01	2.2	15	5	4	21	W
Gettysburg, .....	Adams, .....	.....	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grampian, .....	Clearfield, .....	1,450	34	38.4	+3.1	66	5	16	28	32	6.04	+3.08	1.18	6.0	14	2	8	20	W
Greenboro, .....	Greene, .....	768	9	42.3	.....	70	4	15	24	38	5.86	+1.99	1.08	T	18	4	9	17	W

Greenville, .....	Mercer, .....	1,000	6	40.2	+1.7	65	3	20	28	33	5.89	+2.57	0.96	0.8,	19	5	13	12	W
Hallstead a, .....	Suaquehanna, .....	.....	.....	38.6	.....	64	4	7	24	40	3.41	.....	1.37	T	10	7	3	19	NW
Hamburg, .....	Berks, .....	380	7	44.0	+3.2	67	3	20	28	27	7.04	+3.64	2.90	.....	10	4	17	9	NW
Hamlington, .....	Wayne, .....	1,600	9	38.5	+1.1	65	16	11	24	32	5.09	+1.76	1.75	6.2	16	3	6	21	W
Harrisburg, .....	Dauphin, .....	361	9	43.4	+0.4	68	2	26	30	26	4.09	+1.12	1.18	.....	14	2	13	15	W
Hawley, .....	Wayne, .....	.....	.....	42.8	.....	69	4	15	24	39	4.32	.....	1.72	5.3	10	2	11	17	N
Holldaysburg, .....	Blair, .....	947	10	42.0	+1.9	70	5	18	24	41	4.95	+2.26	1.56	.....	13	6	5	19	W
Huntingdon c, .....	Huntingdon, .....	650	10	42.0	+1.2	70	6	24	20	40	5.16	+2.44	1.74	0.8	13	14	3	10	W
Indiana, .....	Indiana, .....	1,350	4	44.6	+3.1	72	4	16	29	43	6.32	+2.62	1.11	0.5	15	7	1	22	SW
Irwin, .....	Westmoreland, .....	884	.....	.....	.....	.....	.....	.....	.....	.....	4.95	.....	1.10	T	15	8	3	19	.....
Johnstown, .....	Cambria, .....	1,184	10	42.6	+2.9	68	26	19	24	30	6.14	+2.94	1.12	T	19	4	7	19	S
Kennett Square, .....	Chester, .....	275	8	44.6	+2.3	71	16	20	24	36	5.47	+1.71	1.50	0.5	17	6	14	10	S
Lancaster, .....	Lancaster, .....	413	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	Tioga, .....	1,006	.....	39.0	.....	61	5	13	24	30	3.47	.....	1.15	3.0	9	5	3	22	SW
Lebanon, .....	Lebanon, .....	458	10	42.7	+1.6	67	2	22	24	32	5.76	+2.08	1.43	2.1	14	9	9	12	W
Le Roy, .....	Bradford, .....	1,400	9	37.0	+0.4	65	4	13	23	30	3.81	+0.85	1.50	3.6	16	2	4	24	SW
Lewlsburg, .....	Union, .....	450	26	41.5	+3.0	69	2	20	37	34	4.76	+1.75	1.24	3.5	12	0	10	20	W
Lock Haven, .....	Clinton, .....	500	10	42.8	+2.2	70	4	18	30	37	5.89	+2.76	1.83	8.0	13	5	1	24	W
Lvclppus, .....	Westmoreland, .....	1,420	5	43.2	+1.9	70	6	15	24	40	5.41	+3.10	1.04	1.8	16	.....	.....	.....	.....
Mauch Chunk, .....	Carbon, .....	550	8	40.7	+0.9	70	4	12	24	38	6.59	+2.45	3.38	3.0	12	8	8	14	N
Philadelphia, .....	Philadelphia, .....	117	26	45.9	+0.9	71	16	24	24	30	4.44	+1.20	1.16	1.0	13	5	14	11	NW
1529 Centennial Avenue, .....	Philadelphia, .....	120	7	46.2	+1.6	70	16	24	24	25	4.94	+1.14	2.35	1.0	15	6	14	10	NW
Pittsburgh, .....	Allegheny, .....	842	27	45.0	+3.0	69	4	19	30	30	5.11	+3.52	1.13	.....	17	4	9	17	W
Pottstown, .....	Montgomery, .....	150	10	44.3	+0.5	70	16	22	24	28	6.43	+3.06	1.90	1.5	10	15	3	12	W
Quakertown, .....	Bucks, .....	336	23	41.4	+1.0	68	16	13	24	35	5.58	+2.35	2.06	1.0	13	3	13	14	NW
Reading 2, .....	Berks, .....	280	24	42.4	-0.1	.....	.....	.....	.....	.....	5.43	+2.12	1.17	T	14	.....	.....	.....	.....
Reedsville, .....	Mifflin, .....	.....	.....	41.9	.....	64	2	20	28	30	2.87	.....	1.08	T	10	8	12	10	NW
Renova, .....	Clinton, .....	672	.....	41.6	.....	66	5	21	30	34	4.82	.....	2.38	3.2	12	6	13	11	.....
Saegertown, .....	Crawford, .....	1,200	6	39.5	+2.7	69	3	17	14	40	6.51	+3.05	1.10	8.0	20	3	0	27	SW
Scranton, .....	Lackawanna, .....	746	.....	40.2	.....	65	4	10	24	34	4.14	.....	0.95	3.0	12	6	3	21	W
Selinsgrove, .....	Snyder, .....	455	9	41.2	0	68	1	21	24	34	6.35	+2.94	1.74	6.0	14	4	14	12	NW
Shingle House, .....	Potter, .....	1,475	.....	39.7	.....	70	5	14	29	48	6.41	.....	1.82	5.5	10	1	13	16	W
Smethport, .....	McKean, .....	1,500	8	38.1	+2.2	67	4	18	24	41	5.93	+2.73	1.15	6.5	14	2	8	20	NW
Somerset, .....	Somerset, .....	2,250	41	47.0	+1.5	68	5	12	24	36	5.86	+2.43	1.25	2.9	11	4	6	20	SW
South Bethlehem, .....	Northampton, .....	339	7	44.6	+0.9	72	1	22	30	31	5.93	+2.53	2.96	3.5	10	8	13	9	W
South Eaton, .....	Wyoming, .....	660	8	41.0	+4.5	69	2	12	24	36	3.56	+1.28	0.85	2.0	11	7	6	17	NW
State College, .....	Centre, .....	1,191	10	40.0	+0.9	63	4	20	23	27	5.26	-2.31	1.32	2.3	15	3	11	16	W
St. Marys, .....	Elk, .....	1,740	.....	38.7	.....	63	5	15	30	39	4.99	.....	1.22	1.4	16	5	6	19	W
Swarthmore, .....	Delaware, .....	190	9	43.6	+0.2	66	16	21	23	33	6.15	+2.64	.....	.....	.....	4	15	11	NW
Swiftwater, .....	Monroe, .....	1,600	.....	37.3	.....	68	3	11	24	35	6.72	.....	3.00	4.0	8	13	7	10	W
Towanda, .....	Bradford, .....	784	.....	40.3	.....	67	2	15	24	32	2.80	.....	1.11	3.0	14	5	2	23	W
Uniontown, .....	Fayette, .....	681	10	42.2	-1.4	67	5	17	24	34	6.24	+2.51	1.11	.....	16	8	6	16	NW
Warren, .....	Warren, .....	1,137	9	.....	.....	.....	.....	21	24	.....	6.60	+2.51	1.10	5.0	20	7	0	23	NW

Climatological Data for Pennsylvania, November, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing direction of wind.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (un-melted).	Number rainy days.	Number clear days.		Number partly cloudy days.	Number cloudy days.
Wellsboro, .....	Tioga, .....	1,327	19	39.6	+2.8	67	4	18	30	39	5.21	+1.58	1.35	3.8	13	5	2	23	S
West Chester, .....	Chester, .....	455	43	43.7	+1.2	68	16	20	24	32	5.08	+1.10	2.33	1.2	17	10	6	14	W
Westtown, .....	Chester, .....	350	9	42.6	+0.6	68	16	19	24	33	4.79	+1.51	1.61	1.0	15	7	16	7	NW
White Haven, .....	Luzerne, .....	1,150	.....	38.3	.....	66	16	8	24	33	4.72	.....	1.42	4.0	12	2	12	16	NW
Wilkes-Barre, .....	Luzerne, .....	575	13	41.6	+2.0	66	2	16	24	34	4.15	+0.63	1.45	3.0	12	6	6	18	N
Williamsport, .....	Lycoming, .....	530	8	42.2	+4.9	66	2	23	28	26	3.46	+0.49	1.52	4.2	12	18	1	11	W
York, .....	York, .....	385	10	42.2	+0.3	69	16	22	30	34	5.69	+2.47	1.44	1.5	13	12	6	12	W

\*Extremes of temperature from observed readings of dry thermometers.

1 Mean of 7 a. m. + 2 p. m. + 9 p. m. ÷ 4. 2 Mean of 8 a. m. + 8 p. m. ÷ 2.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.

Maximum and Minimum Temperatures for Pennsylvania, November, 1897.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.		Maximum.		Maximum.		Maximum.		Maximum.		Maximum.		Maximum.		Maximum.		Maximum.		Maximum.		Maximum.	
	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.
Altoona, .....	54	48	66	48	57	43	65	35	66	34	53	48	44	34	48	44	57	37	48	35	51	32
Aqueduct, .....	60	52	69	60	60	44	68	37	61	37	55	49	44	44	49	44	54	51	52	35	49	34
Brookville, .....																						
Cannonsburg, .....	63	52	68	41	72	38	76	36	72	43	73	60	32	32	60	32	60	40	49	38	51	33
Carlisle, .....	57	48	67	53	57	45	67	37	63	38	58	46	43	43	46	43	60	44	54	38	47	34
Cassandra, .....	55	48	59	47	54	39	61	32	61	36	44	57	42	33	57	42	55	38	43	35	46	33
Centre Hall, .....	53	45	60	52	55	45	62	37	61	41	46	47	40	35	47	40	56	45	45	34	45	34
Chambersburg, .....	57	44	66	51	57	49	65	32	55	31	53	53	37	37	53	40	59	43	51	37	48	31
Coatesville, .....	62	46	66	50	63	45	73	34	65	34	61	49	44	36	49	44	60	46	57	35	54	30
Confluence, .....	65	24	56	21	64	29	52	28	66	30	67	51	25	31	51	25	61	22	57	35	48	32
Coopersburg, .....	60	46	70	54	63	49	72	39	65	40	58	46	44	41	46	44	61	41	64	37	54	36
Derry Station, .....	67	51	60	53	62	41	56	31	68	34	66	53	37	30	53	37	61	54	58	37	58	37
Drifton, .....																						
Dunmore, .....																						
Dushore, .....	56	41	65	45	53	33	60	27	60	39	60	48	30	35	48	30	56	35	47	29	46	26
Dyberry, .....	55	41	58	40	48	38	66	27	63	27	54	40	27	40	40	27	55	40	47	33	43	24
Easton, .....	59	44	64	56	57	46	60	38	56	37	55	50	42	39	50	42	57	40	52	38	52	32
Emporium, .....	55	48	61	49	57	38	64	32	65	33	57	51	35	38	51	35	58	39	47	35	47	35
Erle, .....	51	48	51	42	54	41	66	44	65	48	50	53	38	39	53	38	52	36	48	39	48	34
Everett, .....	56	47	62	43	55	44	64	31	65	32	59	46	34	34	46	34	59	44	47	37	47	31
Franklin, .....	59	46	60	53	57	42	58	38	66	32	61	56	35	29	56	35	58	40	47	34	49	33
Gettysburg, .....																						
Gramplan, .....	52	46	60	46	52	42	62	32	66	34	40	56	40	28	56	40	56	34	42	34	46	32
Greensburg, .....	63	50	63	50	65	40	70	32	67	35	65	55	41	23	55	41	60	43	47	33	50	35
Greenville, .....	53	47	53	45	57	43	65	32	64	42	55	55	35	28	55	35	54	34	39	35	48	35
Hallstead, .....	57	45	64	50	52	37	61	29	64	32	74	49	27	.....	49	27	57	36	45	32	46	28
Hamburg, .....	60	49	65	61	67	49	66	44	57	24	56	47	45	44	47	45	60	47	51	40	50	36
Hamlington, .....	55	44	58	52	53	43	63	38	62	38	52	44	35	39	44	35	52	42	46	31	43	33
Harrisburg, .....	60	49	68	51	58	48	64	44	62	41	55	47	45	42	47	45	60	42	50	40	51	38
Hawley, .....	65	52	64	44	65	43	69	30	64	42	60	58	30	40	58	30	62	43	60	35	45	28
Hollidaysburg, .....	57	47	66	48	61	43	70	30	70	29	59	49	42	32	49	39	60	40	53	36	53	30
Huntingdon, .....							69	33	66	32	70	58	44	32	58	40	52	40	50	38	48	32

Maximum and Minimum Temperatures for Pennsylvania, November, 1897—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Indiana, .....	56	34	65	40	66	37	72	47	66	49	56	31	62	38	64	41	60	35	53	37	61	33
Irwin, .....																						
Johnstown, .....	55	47	64	48	55	41	67	43	67	43	57	43	46	34	57	43	58	42	48	39	57	36
Kennett Square, .....	62	39	60	52	60	48	70	37	64	35	59	47	53	36	50	43	60	47	56	35	55	32
Lancaster, .....																						
Lawrenceville, .....	56	47	55	51	53	47	58	28	61	35	55	41	51	35	47	29	54	45	45	39	47	31
Lebanon, .....	60	47	67	53	59	42	66	34	61	37	55	46	52	38	46	43	59	44	54	36	52	36
Le Roy, .....	55	45	62	48	53	40	65	35	61	43	52	38	53	33	46	33	52	32	46	30	46	30
Lewisburg, .....	56	49	69	50	60	43	65	34	62	38	54	44	48	35	47	40	58	41	48	33	48	32
Lock Haven, .....	60	48	65	51	65	46	70	36	63	34	64	44	48	36	46	40	58	45	52	32	52	33
Lycippus, .....	69	49	60	52	61	39	53	38	65	50	70	41	48	32	53	38	61	38	58	35	47	26
Mauch Chunk, .....	60	47	65	55	56	46	70	32	58	32	56	45	51	40	44	40	59	42	49	36	48	28
Philadelphia (a), .....	66	49	66	56	62	51	66	46	64	45	60	45	55	41	53	47	62	45	53	40	57	42
Philadelphia (b), .....	64	48	65	56	64	51	64	43	62	46	63	45	57	40	49	46	61	47	56	39	57	43
Pittsburgh, .....	60	51	61	52	58	43	69	43	69	48	55	39	44	36	60	44	60	41	48	40	52	36
Pottstown, .....	60	50	65	51	60	46	68	40	62	40	60	46	55	41	50	46	67	46	53	39	52	38
Quakertown, .....	64	43	64	57	59	45	68	33	60	32	58	45	50	37	46	41	57	42	51	35	55	29
Reedsville, .....	56	48	64	52	57	43	62	34	63	33	63	35	58	38	47	41	57	45	45	37	47	33
Renova, .....	55	47	62	50	61	45	66	35	66	35	59	44	49	36	49	38	60	30	48	34	49	35
Saegertown, .....	59	45	57	47	69	37	66	28	66	32	59	35	43	25	54	36	56	34	47	27	47	31
Scranton, .....	56	43	65	55	60	44	65	31	64	32	55	43	50	40	49	33	58	41	48	34	48	28
Sellinsgrove, .....	68	42	67	47	64	42	62	33	64	30	54	42	64	34	62	41	49	38	52	34	59	36
Shingle House, .....	68	34	68	38	62	32	64	28	70	30	68	20	68	24	60	30	68	32	50	32	42	30
Smethport, .....	52	46	56	50	58	30	67	26	66	32	41	36	46	33	50	28	57	32	43	38	44	34
Somerset, .....	58	46	64	42	50	36	60	28	68	39	52	26	40	28	58	36	60	34	42	32	40	32
South Bethlehem, .....	72	48	60	46	68	42	61	39	65	37	59	48	60	41	59	38	58	40	56	34	50	38
South Eaton, .....	56	47	68	51	55	43	65	31	63	37	55	41	50	40	46	33	59	45	47	34	47	31
State College, .....	53	47	63	47	57	45	63	36	61	40	57	40	45	33	46	35	56	36	44	34	48	35
St. Marys, .....	51	47	56	49	55	39	62	31	63	34	44	30	43	31	53	46	55	35	44	32	44	31
Swarthmore, .....	64	53	64	53	59	50	61	43	58	45	60	38	55	43	50	48	59	38	52	38	56	39
Swiftwater, .....	66	40	62	40	68	40	60	32	60	32	51	32	51	38	43	34	52	40	44	32	44	28

Towanda, .....	56	48	67	52	55	45	56	45	56	35	55	41	51	41	59	41	59	45	31	47	29
Uniontown, .....	61	49	53	45	56	40	66	40	66	38	49	38	46	30	59	42	58	43	38	48	33
Warren, .....	.....	37	.....	36	.....	35	.....	35	.....	30	.....	31	.....	37	.....	34	.....	.....	32	.....	32
Wellaboro, .....	56	46	58	50	58	38	67	38	67	41	46	40	52	36	46	31	52	48	32	46	32
West Chester, .....	61	49	65	54	58	47	63	39	59	39	57	44	53	39	50	45	59	52	37	55	39
Westtown, .....	62	47	65	52	58	46	64	34	58	34	62	45	52	39	48	44	60	51	25	59	33
White Haven, .....	57	45	63	49	51	41	65	31	59	31	53	43	48	37	43	37	55	46	32	46	27
Wilkes-Barre, .....	59	48	66	55	59	46	64	33	64	33	57	43	53	37	48	38	78	50	22	70	30
Williamport, .....	60	49	66	57	61	50	63	38	61	38	51	46	50	37	52	41	59	47	36	48	33
York, .....	60	52	66	44	57	43	65	36	61	36	75	40	49	34	47	43	59	51	37	52	33

Maximum and Minimum Temperatures for Pennsylvania, November, 1897—Continued.

Stations.	12.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	39	30	41	31	34	23	41	33	58	36	40	31	37	28	44	23	66	15	64	41	51	33
Aqueduct, .....	43	40	46	39	44	27	47	40	60	45	43	35	44	30	46	29	56	32	57	32	59	45
Brookville, .....																						
Cannonsburg, .....	36	30	56	28	59	20	63	26	66	35	49	28	50	27	51	29	71	41	74	49	49	36
Carlisle, .....	41	35	45	33	39	27	42	34	57	41	45	33	46	29	45	26	57	30	58	32	56	42
Cassandra, .....	33	26	36	28	39	22	58	38	58	35	35	29	35	29	47	27	61	41	61	49	49	41
Centre Hall, .....	37	32	39	31	36	26	42	33	58	42	42	31	33	28	42	36	58	32	61	35	58	33
Chambersburg, .....	44	32	43	32	38	24	44	31	65	38	45	28	41	24	47	22	58	27	64	28	63	39
Coatesville, .....	45	35	49	35	46	27	50	35	73	43	49	30	45	22	50	23	54	32	69	31	54	39
Confluence, .....	49	30	35	27	40	20	54	24	63	29	69	28	50	25	53	25	62	29	61	28	63	43
Coopersburg, .....	46	36	48	35	45	31	47	36	69	45	47	34	44	28	52	26	48	36	62	35	64	41
Derry Station, .....	50	31	34	28	40	22	57	26	66	57	61	29	37	27	31	26	47	31	61	45	63	42
Drifton, .....																						
Dunmore, .....																						
Dushore, .....	39	33	41	31	41	30	46	33	60	35	37	22	36	19	40	18	52	35	51	39	49	28
Dyberry, .....	41	32	32	30	37	22	40	32	62	40	41	27	38	19	33	18	34	29	58	29	37	28
Easton, .....	48	35	42	39	44	34	45	38	59	48	50	32	39	27	42	26	43	34	58	37	44	33
Emporium, .....	38	34	39	33	39	29	44	36	60	38	38	28	38	28	46	27	58	31	61	31	50	34
Erle, .....	39	30	38	35	40	32	62	40	63	36	36	34	37	33	47	32	60	44	58	40	40	33
Everett, .....		31	47	31	37	24			65	27	47	32	39	27	49	23	65	31	67	31	48	33
Franklin, .....	41	31	39	32	36	23	59	35	68	37	39	29	33	29	46	27	60	32	61	48	52	37
Gettysburg, .....																						
Grampian, .....	32	28	32	28	34	22	44	34	56	24	34	28	36	26	44	24	58	40	60	46	46	32
Greensboro, .....	40	29	40	22	47	23	65	37	64	38	38	27	40	20	50	23	62	31	65	74	58	41
Greenville, .....	36	29	31	29	45	32	60	41	60	35	38	27	33	27	42	27	60	34	61	41	44	32
Hallstead, .....	44	34	37	33	39	32	46	35	57	35	38	20	46	20	50	28	53	32	60	30	37	23
Hamburg, .....	42	34	45	33	43	32	45	36	60	44	44	32	40	27	43	29	48	36	57	36	47	43
Hamlington, .....	43	32	34	31	47	30	42	32	65	42	48	28	32	23	36	23	43	30	57	32	52	31
Harrisburg, .....	42	37	43	35	40	22	44	35	60	41	41	34	41	32	44	29	53	35	60	34	58	33
Hawley, .....	52	32	42	32	50	32	43	34	67	38	60	25	48	20	55	28	57	24	62	30	61	29
Holidaysburg, .....	42	30	43	31	36	22	44	32	62	37	41	30	42	26	59	23	60	32	66	32	61	41
Huntingdon, .....	45	33	44	32	39	15	55	30	46	32	51	31	42	28	48	26	52	24	62	28	64	32

Indiana, .....	48	34	53	37	59	36	62	41	70	28	38	34	42	38	51	32	62	48	61	46	52	21
Irwin, .....	37	33	39	31	37	25	57	37	64	38	32	32	38	32	49	27	54	38	64	34	56	38
Johnstown, .....	50	37	47	35	42	28	52	35	71	42	24	31	48	24	59	24	57	33	67	31	57	44
Kennett Square, .....																						
Lancaster, .....																						
Lawrenceville, .....	40	36	40	34	44	32	47	36	54	34	24	29	36	24	42	22	55	34	60	36	46	34
Lebanon, .....	42	36	45	35	41	26	44	35	60	42	27	30	43	27	45	27	49	34	52	34	57	40
Le Roy, .....	38	30	35	29	40	27	48	32	54	32	21	26	33	21	42	22	58	32	58	36	36	24
Lewisburg, .....	42	34	62	36	40	27	46	35	53	40	26	29	42	26	41	26	54	32	63	29	55	31
Lock Haven, .....	49	35	42	34	40	25	42	34	50	41	34	33	41	34	43	27	58	30	65	28	61	35
Lycippus, .....	49	28	35	26	39	24	63	34	65	56	25	26	35	25	40	27	51	38	60	48	63	33
Mauch Chunk, .....	40	35	43	35	44	33	45	34	62	43	21	31	41	21	39	25	41	34	61	33	44	29
Philadelphia (a), .....	45	39	45	39	43	33	52	37	71	42	33	37	42	33	52	33	49	37	60	37	56	36
Philadelphia (b), .....	48	39	47	38	45	32	51	37	70	47	31	36	45	31	49	33	49	33	59	36	54	43
Pittsburgh, .....	37	33	43	30	50	30	64	50	68	36	30	30	40	30	51	34	65	46	64	48	48	36
Pottstown, .....	44	36	46	36	44	30	47	39	70	46	30	34	42	30	48	38	48	38	52	38	50	40
Quakertown, .....	43	35	45	34	44	27	46	34	68	43	23	28	41	23	47	20	45	33	53	33	48	39
Reedsville, .....	43	33	43	35	41	23	45	23	54	40	28	32	42	28	43	25	55	29	62	38	53	41
Renova, .....	42	35	40	35	40	26	43	35	52	39	25	34	40	25	45	28	51	31	64	30	60	36
Saegerstown, .....	40	26	37	27	35	17	55	29	59	33	20	33	36	20	45	25	59	27	60	44	50	30
Scranton, .....	46	35	40	34	43	33	45	35	61	40	25	3	37	25	41	21	50	34	56	29	54	32
Selinsgrove, .....	45	30	52	33	41	25	54	42	52	30	25	29	42	25	45	26	48	31	56	31	43	27
Shingle House, .....	42	26	40	24	42	25	46	28	60	34	26	28	38	26	44	22	52	32	60	48	52	32
Smethport, .....	34	29	35	29	38	26	50	32	65	34	20	27	37	20	42	24	59	30	61	43	43	32
Somerset, .....	42	22	40	26	38	18	58	34	62	30	30	27	50	30	56	26	60	48	60	40	50	40
South Bethlehem, .....	49	34	52	33	48	33	52	36	50	32	29	34	49	29	42	24	49	32	60	36	52	34
South Eaton, .....	43	37	41	35	43	34	48	38	62	36	21	28	29	21	41	21	52	31	61	34	53	31
State College, .....	38	30	38	30	35	27	43	33	58	36	26	30	37	26	42	25	60	33	62	46	56	32
St. Marys, .....	34	29	31	28	34	24	52	34	59	35	24	27	34	24	59	23	56	35	58	44	52	35
Swarthmore, .....	42	38	45	32	43	37	53	41	66	33	23	29	41	23	48	32	49	35	57	32	50	30
Swiftwater, .....	40	22	36	32	40	32	41	34	64	35	17	26	35	17	36	19	38	29	52	28	50	28
Towanda, .....	43	35	38	34	42	34	46	35	60	46	23	29	40	25	39	21	56	34	62	35	35	21
Uniontown, .....	34	29	41	25	47	36	63	45	63	38	25	29	36	25	49	27	60	42	63	48	48	37
Warren, .....	46	31	45	39	50	25	37	29	83	29	22	27	36	22	36	26	55	30	60	45	60	36
Wellsboro, .....	45	30	36	24	40	31	45	34	56	36	22	26	36	22	45	28	58	34	65	35	44	32
West Chester, .....	43	36	45	36	41	29	50	36	68	44	27	30	40	27	47	28	50	36	64	32	56	40
Westtown, .....	42	37	43	35	41	29	50	36	68	42	26	33	40	26	46	24	49	36	63	30	54	38
White Haven, .....	38	32	40	33	41	32	44	33	66	35	23	27	35	23	38	20	41	31	59	30	50	29
Wilkes-Barre, .....	45	35	40	34	44	33	47	35	61	41	24	30	40	24	40	23	51	32	57	30	52	33
Williamsport, .....	49	36	40	35	41	29	46	34	54	37	28	35	39	28	43	27	54	33	60	31	44	32
York, .....	41	35	43	35	40	27	47	34	69	41	26	32	41	26	46	27	59	32	64	30	49	40



Maximum and Minimum Temperatures for Pennsylvania, November, 1897—Continued.

Stations.	23.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.	Mean.
Altoona, .....	34	25	34	19	36	29	62	35	54	29	32	19	36	24	28	19	.....	.....	48.2	32.3
Aqueduct, .....	45	33	38	12	43	34	62	50	50	25	40	20	41	31	34	27	.....	.....	51.0	37.7
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cannonsburg, .....	41	24	58	20	59	35	68	54	.....	.....	64	26	45	25	44	18	.....	.....	58.3	33.9
Carlisle, .....	42	28	38	26	41	25	60	49	56	31	37	21	37	24	35	23	.....	.....	50.0	34.8
Cassandra, .....	41	23	34	19	45	31	61	45	45	28	38	21	36	25	25	19	.....	.....	47.2	33.3
Centre Hall, .....	41	29	31	29	37	26	53	34	59	32	34	20	31	26	37	20	.....	.....	46.8	34.3
Chambersburg, .....	42	27	37	22	42	22	62	34	59	27	49	18	39	23	33	20	.....	.....	51.1	31.8
Coatesville, .....	43	27	42	21	44	25	62	40	63	31	41	22	40	23	37	25	.....	.....	54.1	33.6
Confluence, .....	51	29	41	15	43	13	54	20	69	28	35	20	43	21	39	19	.....	.....	53.8	20.2
Coopersburg, .....	41	26	47	20	43	26	61	40	59	33	45	23	42	27	39	25	.....	.....	53.5	38.0
Derry Station, .....	45	37	37	19	.....	.....	60	54	69	32	32	22	44	22	42	18	.....	.....	52.9	35.0
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	32	15	31	14	39	26	53	37	76	24	36	14	39	23	26	16	.....	.....	47.0	29.0
Dyberry, .....	28	16	34	2	35	20	55	33	59	25	33	13	35	20	26	17	.....	.....	44.5	28.2
Easton, .....	42	24	38	17	41	27	61	40	67	28	35	22	42	30	38	25	.....	.....	49.3	35.2
Emporium, .....	36	24	34	23	44	28	60	43	55	37	39	22	38	27	28	18	.....	.....	48.5	32.8
Erle, .....	33	26	36	26	54	36	61	37	47	37	43	27	38	24	25	22	.....	.....	47.7	35.4
Everett, .....	41	27	36	18	42	24	67	35	67	30	43	17	35	25	33	20	.....	.....	50.9	31.0
Franklin, .....	41	28	36	24	48	32	62	44	57	29	41	22	40	27	30	19	.....	.....	50.5	33.6
Gettysburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gramplan, .....	32	22	32	20	40	28	60	50	50	24	34	16	34	20	24	16	.....	.....	45.2	31.5
Greensboro, .....	41	28	38	15	55	27	54	32	57	32	48	22	45	32	30	17	.....	.....	52.8	31.8
Greenville, .....	35	23	34	22	49	32	60	48	54	28	40	20	35	24	28	20	.....	.....	47.8	32.5
Hallstead, .....	30	27	34	7	38	26	59	37	59	19	50	14	39	11	30	27	.....	.....	48.2	38.9
Hamburg, .....	43	28	37	25	47	21	60	47	48	47	47	20	37	34	34	27	.....	.....	49.8	38.1
Hamlington, .....	33	19	30	11	35	23	56	35	57	25	36	16	36	22	27	17	.....	.....	45.6	31.4
Harrisburg, .....	36	30	36	28	46	31	63	46	57	32	36	28	40	30	31	26	.....	.....	49.8	37.0
Hawley, .....	40	28	30	15	32	17	53	30	60	24	58	22	46	24	49	29	.....	.....	54.6	31.1
Holidaysburg, .....	44	26	40	18	40	25	68	34	58	30	42	18	37	27	33	19	.....	.....	52.4	31.6
Huntingdon, .....	44	28	40	26	42	28	68	36	64	22	65	25	38	28	45	27	.....	.....	52.3	31.7

Indiana, .....	32	18	51	20	61	45	58	30	(1	18	56	31	32	16	39	18	.....	.....	55.0	33.7
Irwin, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown, .....	38	26	35	19	42	28	68	40	56	43	43	22	37	27	29	19	.....	.....	50.2	34.9
Kennett Square, .....	46	29	40	20	43	23	64	36	63	36	42	24	44	27	40	25	.....	.....	54.8	34.5
Lancaster, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	34	22	31	13	39	28	60	34	34	30	36	16	37	25	27	17	.....	.....	46.1	31.8
Lebanon, .....	46	27	37	22	43	27	61	42	61	35	38	24	37	26	34	25	.....	.....	50.4	35.0
Le Roy, .....	26	13	30	13	38	25	55	35	35	21	29	17	36	23	24	16	.....	.....	44.7	29.4
Lewisburg, .....	46	22	36	24	40	29	63	33	55	32	40	21	38	26	31	20	.....	.....	50.0	33.0
Lock Haven, .....	41	27	37	24	39	27	64	36	67	34	42	21	37	23	35	18	.....	.....	51.7	33.9
Lycippus, .....	46	25	30	15	48	15	61	41	69	30	33	22	44	23	44	15	.....	.....	52.9	33.5
Mauch Chunk, .....	39	23	37	12	40	20	60	38	45	28	37	18	38	26	33	23	.....	.....	48.3	33.1
Philadelphia (a), .....	39	28	39	24	47	32	65	47	61	31	36	28	45	33	36	29	.....	.....	53.1	33.7
Philadelphia (b), .....	43	29	40	24	46	31	64	45	60	35	36	27	45	33	37	28	.....	.....	53.5	33.9
Pittsburgh, .....	36	27	40	25	58	35	69	48	48	32	49	29	46	26	30	19	.....	.....	53.0	37.0
Pottstown, .....	40	24	40	22	46	30	64	44	50	34	39	25	42	30	32	26	.....	.....	51.2	37.4
Quakertown, .....	39	25	37	13	42	21	62	37	46	33	38	19	41	23	33	23	.....	.....	50.0	32.7
Reedsville, .....	42	34	42	26	38	26	62	34	61	31	32	20	38	30	37	23	.....	.....	50.1	33.7
Renova, .....	41	26	36	24	40	28	63	38	56	32	40	22	38	24	38	21	.....	.....	49.8	33.3
Saegertown, .....	38	30	35	19	47	27	59	41	57	25	43	17	42	22	29	19	.....	.....	49.5	29.5
Scranton, .....	35	19	32	10	38	24	61	31	62	28	38	12	40	25	32	20	.....	.....	49.1	31.4
Selinsgrove, .....	39	24	37	21	40	27	47	36	47	35	41	22	38	23	34	23	.....	.....	50.5	32.0
Shingle House, .....	48	22	40	18	56	34	58	28	34	20	38	22	38	14	34	18	.....	.....	51.7	27.7
Smethport, .....	32	20	31	18	41	26	59	39	39	26	40	19	35	24	23	18	.....	.....	46.0	30.2
Somerset, .....	45	20	40	12	50	27	65	38	45	22	40	28	35	22	30	20	.....	.....	50.0	30.1
South Bethlehem, .....	48	38	52	36	49	32	56	26	59	28	58	29	42	26	39	22	.....	.....	54.4	34.7
South Eaton, .....	35	20	39	12	39	25	62	26	65	39	39	25	39	20	32	21	.....	.....	49.5	32.0
State College, .....	32	23	33	22	39	28	61	39	54	27	37	20	35	26	27	20	.....	.....	47.4	32.7
St. Marys, .....	35	19	29	19	48	23	58	47	58	19	37	18	35	21	21	15	.....	.....	40.5	30.9
Swarthmore, .....	39	21	37	22	48	35	63	48	49	27	38	28	44	27	33	26	.....	.....	50.9	36.3
Swiftwater, .....	32	19	30	11	36	21	57	34	57	22	32	16	37	22	28	22	.....	.....	46.0	28.6
Towanda, .....	29	19	31	15	38	25	60	38	60	28	38	18	40	28	32	22	.....	.....	48.2	32.4
Uniontown, .....	37	25	34	17	61	30	66	51	51	28	35	26	35	27	33	18	.....	.....	50.1	34.3
Warren, .....	45	26	36	21	50	34	55	27	47	29	42	29	36	21	37	22	.....	.....	.....	33.5
Wellsboro, .....	36	21	35	20	37	26	58	47	47	32	44	20	38	25	28	18	.....	.....	47.4	31.7
West Chester, .....	41	27	37	20	42	27	62	41	61	30	36	24	43	33	35	25	.....	.....	51.4	36.0
Westtown, .....	38	26	34	19	42	27	62	39	60	32	34	24	48	29	33	25	.....	.....	50.4	34.7
White Haven, .....	30	17	32	8	37	18	67	37	55	27	36	18	37	24	26	20	.....	.....	46.3	30.3
Wilkes-Barre, .....	37	22	33	16	53	25	57	45	63	29	36	20	41	26	35	23	.....	.....	57.2	33.1
Williamsport, .....	33	28	38	24	49	26	61	47	47	40	40	23	36	29	29	24	.....	.....	48.7	35.6
York, .....	40	31	37	25	45	26	63	44	44	31	40	25	39	29	33	22	.....	.....	50.1	34.4

Daily Precipitation for Pennsylvania, November, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....		2.96	.....	.....	.....	.....	.....	.34	.65	.....	.16	.....	.....	.....	.25	.16
Browers' Lock, .....	.95	1.90	.....	.....	.....	.....	.....	.32	.29	.....	.09	.....	.....	.....	.19	.08
Coatesville, .....	1.94	1.47	.03	.....	.....	.....	.....	.27	.23	.....	.19	.....	.....	.10	.18	.10
Coopersburg, .....	1.51	2.26	.....	.....	.....	.....	.....	.30	.47	.....	.26	.....	.....	.01	.34	.12
Doylestown, .....	1.11	1.46	.....	.....	.....	.....	.....	.24	.25	.....	.23	.....	.....	†	.20	.....
Dyberry, .....	.83	1.11	.....	.....	.....	†	.....	.28	1.02	.....	.25	.....	.....	.....	.28	.06
Easton, .....	.97	1.82	.....	.....	.....	†	.....	.40	.72	.....	.24	.....	.....	†	.33	.23
Forks of Neshaminy, .....	1.30	1.61	.....	.....	.02	.....	.....	.24	.26	.....	.19	.....	.....	.01	.17	.03
Frederick, .....	1.50	1.63	.....	.....	.....	.....	.28	.22	.....	.....	.17	.....	.....	.02	.25	.07
Hamburg, .....	2.90	.86	.....	.....	.....	.....	.52	.38	.....	.....	.26	.....	.....	•	.51	†
Hamlington, .....	.14	1.75	.02	.....	.....	.....	.....	.09	.58	.05	.11	.06	.02	.....	.32	.12
Hawley, .....	•	1.72	.....	.....	.....	.....	.....	•	.70	.....	.27	†	.....	.....	.33	.....
Honesdale, .....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kennett Square, .....	1.34	1.50	.01	.....	.....	.....	.....	.34	.25	.....	.17	.....	.....	.03	.30	.03
Lansdale, .....	.98	1.56	.....	.....	.....	.....	.....	.30	.30	.....	.09	.....	.....	.....	.23	1.75
Mauch Chunk, .....	•	3.38	.....	.....	†	.....	.....	.48	.29	.....	.32	.....	.....	.....	.40	.03
Ottsville, .....	.96	.81	.....	.....	.....	.....	.....	.63	.37	.....	.30	.....	.....	.....	.26	.....
Philadelphia (a), .....	.74	1.16	.....	.....	.....	†	.....	.26	.36	.....	.16	.....	.....	.01	.12	.01
Philadelphia (b), .....	.94	1.48	†	.....	.....	.....	.....	.28	.35	.....	.16	.....	.....	.01	.12	.01
Point Pleasant, .....	1.09	1.47	.....	.....	.....	.....	.....	.20	.23	.....	.23	.....	.....	.....	.20	.17
Pottstown, .....	1.60	1.90	.....	.....	.....	.....	.....	.05	.48	.....	.20	.....	.....	.....	.30	.20
Quakertown, .....	1.00	2.06	.....	.....	.....	.....	.....	.24	.26	.....	.13	.....	.....	.02	.24	.19
Reading, .....	1.53	1.71	.....	.....	.....	.....	.....	.27	.28	.....	.23	.05	.....	†	.17	.13
Selsholtzville, .....	1.72	1.68	.....	.....	.....	.....	.31	.43	.....	.....	.29	.....	.....	.02	.29	.51
Shawmont, .....	2.00	1.46	.....	.....	.....	.....	.....	.27	.20	.....	.13	.....	.....	.....	.18	.03
Smiths' Corners, .....	1.04	1.47	.....	.....	.....	.....	.....	.22	.26	.....	.31	.....	.....	.....	.....	.25
Swiftwater, .....	3.00	†	.....	.....	.....	.....	.....	.60	.44	.....	.56	†	.....	.....	†	.50
West Chester, .....	1.49	1.23	.03	.....	.....	.01	.....	.33	.17	.....	.19	.....	.....	.09	.21	.06
White Haven, .....	1.42	1.02	.....	.....	†	.....	.....	.12	.49	.....	.25	.03	.....	.....	.20	.32



Daily Precipitation for Pennsylvania, November, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Elwood Junction, .....	.29	.90	.10	.....	.....	.06	.....	.26	.29	.05	.20	.15	†	.....	1.04	.20
Franklin, .....	.83	.34	.....	.....	.11	.....	.....	.39	.29	.16	.61	.10	.....	.32	.31	.44
Freeport, .....	.13	.98	.03	.....	.....	.08	.....	.53	.90	.05	.08	.23	.02	.....	1.18	.27
Greensboro, .....	.25	.07	.35	.....	.06	.....	.22	1.08	.23	.10	.23	.08	.....	.70	.46	.05
Greenville, .....	.83	.30	.05	.....	.09	.....	.10	.32	.65	.08	.42	.31	.....	.39	.40	.51
Indiana, .....	1.11	.12	.....	.....	.10	.....	.71	.67	.11	†	.....	.61	†	.50	.52	.46
Irwin, .....	.69	.07	†	.02	.....	.....	.48	.71	.06	.07	.04	†	.....	1.10	.22	.28
Johnstown, .....	.43	1.12	.05	†	.....	†	.....	.50	.98	.24	.02	.25	.04	.....	1.01	.13
Lock No. 4, .....	.27	.70	.04	.....	.....	.08	.....	.74	1.07	.04	.08	.02	.....	.....	1.04	.18
Lycippus, .....	.66	.11	.....	.....	.....	.....	.50	1.04	.08	.03	.22	.....	.....	.85	.15	.44
Oil City, .....	.17	1.04	.18	.....	.....	.11	†	.12	.53	.13	.11	.76	.10	.....	.48	.46
Parkers' Landing, .....	.22	1.03	.....	.....	.....	.15	.....	.20	.44	.04	.09	.50	.....	.....	.75	.37
Pittsburgh, .....	1.13	.06	.05	.....	†	.02	.02	.70	.39	†	.06	.01	.....	.73	.64	.36
Ridgway, .....	.28	.66	.....	.....	.....	.12	.05	.10	.38	.05	.01	.30	.05	.....	.34	.33
Saegerstown, .....	.54	.74	.10	.....	.....	.24	.01	.09	.72	.07	.47	.28	.....	.19	.43	.50
Shingle House, .....	.....	1.62	.....	.....	.....	.....	.29	.21	.86	.....	.22	.40	.....	.....	.30	.54
Smethport, .....	.55	.65	.08	.....	.....	.20	.....	.10	.45	.....	.30	†	†	.....	.55	.65
Somerset, .....	1.25	.....	.....	.....	.....	.....	.50	.80	.....	.....	.20	.25	.....	.90	.50	.11
St. Marys, .....	•	1.06	†	.....	.....	.....	.....	.41	.04	.32	.08	.02	.42	.11	.49	.37
Uniontown, .....	.87	.16	.09	.....	†	.....	.13	1.11	.04	.04	.31	.02	.....	.65	.72	.78
Warren, .....	1.10	.30	.02	.....	.14	†	.01	.50	.60	.17	.04	.33	.01	†	.96	.38
West Newton, .....	.23	.69	.03	†	.....	.15	.....	.42	1.30	.03	.03	.10	†	.....	.92	.14
Potomac Basin.																
Chambersburg, .....	2.30	.65	.18	.....	.....	.....	.....	.43	.16	.....	.14	.....	.....	.29	.25	.....
Lake Basin.																
Erle, .....	.57	.46	.17	.....	.03	.35	.....	.04	.77	†	.37	.02	†	.17	.06	.51

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

Daily Precipitation for Pennsylvania, November, 1897—Continued.

Stations.	Day of Month.																Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.		
Delaware Basin.																	
Bethlehem, . . . . .						•	.35			.24	.77		.11			5.59	
Browsers' Lock, . . . . .	.08						.33			.15	.87		.08			5.23	
Coatesville, . . . . .	.05					.06	.28		.01	.11	.66		.15			5.83	
Coopersburg, . . . . .	.10						.21		.01	.33	.78		.09			6.80	
Doylestown, . . . . .	.16						.15			.12	1.00		.03			4.95	
Dyberry, . . . . .						.10	.30		.10	.24	.58		.22			5.36	
Easton, . . . . .	.07						.25		†	.35	.73		.09			6.20	
Forks of Neshaminy, . . . . .	.02					.26				.20	.75		.06			5.12	
Frederick, . . . . .	.13						.23			.18	1.02		.08			5.78	
Hamburg, . . . . .						.41			•	1.20			†			7.04	
Hamlington, . . . . .	.08		†				.40			.33	.85		.17			5.09	
Hawley, . . . . .						.43			•	.75		.12				4.32	
Honesdale, . . . . .																	
Kennett Square, . . . . .	.10					.02	.33		.01	.16	.03	.75	.08			5.47	
Lansdale, . . . . .							.19			.20			.02			5.62	
Mauch Chunk, . . . . .	.21					.22				.63	.48		.15			6.59	
Ottsville, . . . . .	.22						.25			.24	.68		.08			4.80	
Philadelphia (a), . . . . .	.05					†	.19		†	.22	1.08		.08			4.44	
Philadelphia (b), . . . . .	.09					.01	.28		.01	.21	.81		.08			4.84	
Point Pleasant, . . . . .	.04						.20			.19	.57		.11			4.70	
Pottstown, . . . . .							.35			1.30			.10			6.48	
Quakertown, . . . . .	.19						.26		†	.21	.64		.12	†		5.58	
Reading, . . . . .	.04						.15		.01	.35	.48		.05			5.43	
Selsholtzville, . . . . .							.29			.38	.93		.14			6.99	
Shawmont, . . . . .	.05						.22			.14	.52		.07			5.22	
Smiths' Corners, . . . . .	.11						.35			.22	.71		.09			5.03	
Swiftwater, . . . . .						†	.50			.94			.18			6.72	
West Chester, . . . . .	.04					.07	.29		.02	.18	.60		.07			5.08	
White Haven, . . . . .							.46		†	.35	.26		.08			4.94	

Daily Precipitation for Pennsylvania, November, 1897.—Continued.

Stations.	Day of Month.															Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	
Susquehanna Basin.																
Altoona, .....	†					.20	†		.09	.45	.08		.15			5.36
Aqueduct, .....						†	.27		.02	.16	.13		.08			5.87
Carlisle, .....						.10	.25			.36	.08		.03			4.07
Centre Hall, .....						.22		.22		.47			.13			5.43
Drifton, .....																
Dunmore, .....																
Dushore, .....	†					*	.20		†	.50	.20		.09			3.74
Emporium, .....	†					.08	.05		.10	1.02	.18		.22			5.13
Everett, .....						.01	.23		.04	.15	.21	.05	.10			4.53
Gettysburg, .....																
Girardville, .....						.12	.15		.26	.60	.40		.07			6.12
Gramplan, .....	†						.30			.90	.20		.18			6.04
Hallstead a, .....						.30				.16			.45			3.41
Harr'sburg, .....	†					.01	.18		†	.26	.33		.10			4.09
Hollidaysburg, .....							.27			.35	.25		.19			4.95
Huntingdon, .....						.36		.05	.04	.24			.46			5.16
Lawrenceville, .....						.29	†		.04	.29	†		†	†		3.47
Lebanon, .....	.01					†	.28		†	.57	.63		.07			5.76
Le Roy, .....	.01					.05	.20		.01	.15	.25		.10			3.81
Lewlsburg, .....							.20			.57	.05		.15			4.76
Lock Haven, .....	.16						.40		.20	.31	.43		.40			5.89
Reedsville, .....	.01					†	†		†	.07	.04		.02			2.37
Renova, .....							.22			.67			.08	.04		4.82
Scranton, .....	.20						.30			.42	.53		.04			4.14
Selinsgrove, .....						.10	.30		.15	.83	.52		.20			6.35
South Eaton, .....							.22				.26		.16			3.96
State College, .....						.08	.25		.04	.31	.26		.17			5.26
Towanda, .....	.04					*	.21	†		.04	†		.12	†		2.80
Wellsboro, .....	†	†				.25	.02			.50	.20		.10			5.21
Wilkes-Barre, .....						.30			*	.95			.21			4.15
Williamsport, .....						.27				.56			.15			3.46
York, .....						†	.29		†	.18	.46		.10			5.69

Ohio Basin.														
Beaver Dam, .....	.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brookville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.18
Cannonsburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.36
Cassandra, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.89
Confluence, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.83
Davis Island Dam, .....	.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.89
Derry Station, .....	.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.42
Elwood Junction, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.76
Franklin, .....	.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.94
Freeport, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.45
Greensboro, .....	.56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.42
Greenville, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.36
Indiana, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.89
Irwin, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.32
Johnstown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.95
Lock No. 4, .....	.26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.14
Lycippus, .....	.37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.95
Oil City, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.41
Parkers' Landing, .....	.47	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.37
Pittsburgh, .....	.33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.39
Ridgway, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.11
Saegerstown, .....	.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.45
Shingle House, .....	.04	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.51
Smethport, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.41
Somerset, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.93
St. Marys, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.86
Uniontown, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.99
Warren, .....	.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.24
West Newton, .....	.37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.60
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.52
Potomac Basin.														
Chambersburg, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.28
Lake Basin.														
Erle, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.62

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.



## DECEMBER, 1897—CLIMATOLOGY OF THE MONTH.

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### Atmospheric Pressure.

The mean pressure for the month, 30.10 inches, is .02 below the normal. At the United States Weather Bureau stations the highest observed was 30.57 inches, at Philadelphia, on the 2d, and Pittsburgh, on the 24th, and the lowest, 29.30 inches, at Philadelphia, on the 31st.

### Temperature.

The means of the daily maximum and minimum temperatures, 39.9 degrees and 26.2 degrees, respectively, give a monthly mean of 33.0 degrees, which is 1.1 degrees above the normal, and 2.4 degrees above the corresponding month of 1896.

The average daily range was 13.7 degrees.

The highest monthly mean was 38.1 degrees, at Philadelphia, Weather Bureau.

The lowest monthly mean was 27.6 degrees, at Dyberry.

The highest temperature recorded during the month was 73 degrees, on the 9th, at Cannonsburg.

The lowest temperature was minus 6 degrees, on the 23d, at Franklin, and 29th, at Saegerstown.

The greatest local monthly range was 69 degrees, at Cannonsburg.

The least local monthly range was 47 degrees, at Philadelphia, Swarthmore and West Chester.

The greatest daily range was 43 degrees, at Franklin.

### Precipitation.

The average precipitation for the month, 3.95 inches, is 0.86 inches more than the normal.

The largest totals of rainfall and melted snow, in inches, were: Hamburg, 6.25; Girardville, 5.92; Swiftwater, 5.91; Easton, 5.63; Somerset, 5.50; Lycippus, 5.43. The least were: Reedsville, 1.28; Chambersburg, 1.93; Lawrenceville, 2.02; Davis Island Dam, 2.54; Warren, 2.60; Erie, 2.73.

### Wind and Weather.

The prevailing wind was from the west.

Average number of rainy days, 12; clear, 6; partly cloudy, 8; cloudy, 17.



TOTAL PRECIPIT



SCALE ( )



Under 2    3 to 4

ATION, DECEMBER, 1897.



IN INCHES.



0 5 to 6 Over 6



**Miscellaneous Phenomena.**

**Hail.**—Dushore, Dyberry and Emporium, 20th.

**Snow.**—1, 2, 3, 5, 6, 7, 12, 17, 18, 19, 20, 21, 23, 24, 26, 27, 28, 29, 30, 31.

**Solar Halo.**—Le Roy and Philadelphia, Centennial Avenue, 10th; Wellsboro, 10th, 14th, 28th.

**Lunar Halo.**—Carlisle, Emporium, Lebanon, 6th; Dushore, Harrisburg, West Chester, 6th and 10th; Le Roy, 9th and 10th; Philadelphia, Centennial Avenue, 2d and 6th; Pittsburgh, 30th; State College, 7th; Wellsboro, 9th and 13th.

Climatological Data for Pennsylvania, December, 1897.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.				Sky.			Prevailing direction of wind.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (un-melted).	Number rainy days.		Number clear days.	Number partly cloudy days.	Number cloudy days.
Altoona, .....	Blair, .....	1,181	10	32.9	-0.9	61	11	6	25	23	3.54	-0.48	0.95	.....	14	.....	.....	.....	NW
Aqueduct, .....	Perry, .....	367	9	36.4	+2.1	68	11	8	25	25	3.15	+0.20	0.90	.....	12	4	11	16	NW
Brookville, .....	Jefferson, .....	1,173	13	.....	.....	.....	.....	.....	.....	.....	4.82	+1.91	1.25	.....	20	.....	.....	.....	W
Cannonsburg, .....	Washington, .....	93	25	37.4	+5.9	73	9	4	24	43	4.19	+1.61	1.20	11.5	9	4	13	14	W
Carlisle, .....	Cumberland, .....	480	50	34.2	+3.0	64	11	9	25	27	3.29	+0.27	1.31	5.0	9	12	7	12	S
Cassandra, .....	Cambria, .....	2,100	.....	32.2	.....	53	10	6	25	34	3.70	.....	0.73	9.7	15	2	11	18	NW
Centre Hall, .....	Centre, .....	1,100	.....	31.0	.....	54	11	6	25	25	4.19	.....	1.13	19.0	11	10	1	20	.....
Chambersburg, .....	Franklin, .....	1,000	35	33.3	-0.1	67	11	7	25	33	1.93	-0.11	0.42	.....	11	4	10	17	W
Coatesville, .....	Chester, .....	390	10	35.4	+1.7	68	11	7	29	34	4.96	+1.45	2.06	6.4	13	12	10	9	W
Confluence, .....	Somerset, .....	1,324	23	32.3	.....	63	10	0	25	42	4.36	+0.84	0.81	5.0	18	4	1	26	W
Coopersburg, .....	Lehigh, .....	520	8	37.4	+3.8	67	10	9	29	30	4.76	+0.86	1.67	4.2	12	14	9	8	NW
Derry Station, .....	Westmoreland, .....	1,172	.....	33.4	.....	63	10	0	25	37	3.96	.....	1.07	3.0	16	5	11	15	W
Drifton, .....	Luzerne, .....	1,633	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	Lackawanna, .....	1,117	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	Sullivan, .....	1,590	.....	29.6	.....	60	10	-3	25	28	2.74	.....	1.40	17.8	10	3	6	22	S
Dyberry, .....	Wayne, .....	1,100	33	27.6	+2.3	62	10	-5	29	33	4.71	+1.89	1.56	12.0	11	6	7	18	NW
Easton, .....	Northampton, .....	325	14	33.8	+1.6	61	11	8	24	26	5.63	+1.85	2.04	6.0	12	6	5	20	.....
Edinboro* 1, .....	Erie, .....	1,220	9	28.6	+0.3	54	10	5	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	W
Emporium, .....	Cameron, .....	1,050	10	32.1	+0.5	61	10	3	25	29	4.20	+0.92	0.68	12.6	11	2	9	20	W
Erie, .....	Erie, .....	1,400	24	32.4	+0.4	61	10	9	25	30	2.73	-0.47	0.65	.....	21	0	5	26	SW
Everett, .....	Bedford, .....	1,060	.....	.....	.....	.....	.....	.....	.....	.....	3.96	.....	.....	.....	.....	.....	.....	.....	.....
Forks of Neshaminy 1, .....	Bucks, .....	304	9	36.2	-1.7	.....	.....	.....	.....	.....	5.16	+2.21	2.13	.....	13	8	7	16	N
Franklin, .....	Venango, .....	955	22	32.2	.....	60	10	-6	23	43	3.20	.....	1.43	7.2	11	11	1	19	W
Gettysburg, .....	Adams, .....	.....	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grampian, .....	Clearfield, .....	1,450	34	30.0	+3.2	60	10	0	25	30	4.57	+0.88	1.00	14.0	12	0	9	22	W
Greensboro, .....	Greene, .....	768	9	36.2	.....	65	9	2	24	37	4.86	+2.08	1.15	5.0	13	2	11	18	SW

Greenville, .....	1,000	6	33.5	-0.4	60	9	8	24	24	4.73	+2.33	0.97	19.5	18	2	6	23	NW
Hallstead a, .....	380	7	29.6	.....	61	11	0	25	30	4.0	.....	1.30	16.1	9	3	9	18	S
Hamburg, .....	1,600	9	35.7	+1.8	60	11	12	24	19	6.25	+3.24	2.60	5.0	10	4	18	9	NW
Hamilton, .....	361	9	29.3	+0.3	58	11	0	24	27	5.21	+1.46	1.20	19.0	19	3	5	23	W
Harrisburg, .....	.....	9	35.6	+1.6	63	11	13	25	25	3.21	+0.79	0.58	.....	11	4	7	20	W
Hawley, .....	.....	.....	32.4	.....	66	10	0	23	29	5.05	.....	1.20	16.4	12	2	17	12	N
Holidaysburg a, .....	947	10	34.0	+0.4	67	9	3	24	34	3.46	+0.18	0.88	5.0	13	4	2	24	W
Huntingdon, .....	650	10	36.0	+2.2	60	12	6	25	30	3.19	+0.06	0.86	10.6	11	8	12	11	W
Indiana, .....	1,350	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Irwin, .....	884	.....	.....	.....	.....	.....	.....	.....	.....	4.23	.....	0.87	13.0	12	2	1	28	.....
Johnstown, .....	1,134	10	34.7	+0.1	64	10	2	25	56	3.74	+0.25	0.90	4.0	19	2	6	23	NW
Kennett Square, .....	275	8	35.6	+1.2	63	10	9	29	30	4.59	+1.55	1.55	3.8	12	12	8	11	NW
Lancaster, .....	413	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	1,006	.....	30.8	.....	60	11	0	25	32	2.02	.....	0.72	8.0	9	5	4	22	SW
Lebanon, .....	458	10	34.4	+1.0	65	11	11	25	24	4.06	+0.69	0.87	3.8	13	5	9	17	NW
Le Roy, .....	1,400	9	28.3	-0.7	59	10	-2	24	23	2.89	-0.49	1.00	13.5	15	2	6	23	SW
Lewisburg, .....	450	26	33.4	+4.0	63	11	8	25	26	3.94	+0.87	0.90	9.0	10	3	6	22	S
Lock Haven, .....	500	10	34.2	+1.9	61	10	8	25	26	2.98	-0.38	0.97	7.5	10	4	7	20	W
Lycippus, .....	1,420	5	33.6	-1.7	62	11	5	24	36	5.43	+1.64	0.99	12.8	18	.....	.....	.....	.....
Mauch Chunk, .....	550	8	32.4	+1.1	62	11	5	24	29	5.16	+1.72	1.15	8.0	12	6	7	18	N
Philadelphia, .....	117	26	38.1	+2.1	63	10	16	24	25	4.52	+1.85	2.02	1.7	12	5	13	13	NW
1529 Centennial Avenue, .....	120	7	37.6	-0.3	63	10	16	24	23	4.55	+1.29	1.99	1.6	12	6	14	11	NW
Pittsburgh, .....	812	27	37.0	+1.0	65	9	9	21	30	3.44	+0.67	1.15	10.4	14	0	9	22	SW
Pottstown, .....	150	10	36.2	+0.8	64	11	10	29	26	5.00	+1.61	2.30	6.5	10	19	0	12	W
Quakertown, .....	536	23	32.8	+1.3	63	11	1	29	32	4.70	+1.65	1.23	4.0	11	3	17	11	SW
Reading 2, .....	280	24	34.4	+0.7	.....	.....	.....	.....	.....	4.00	+1.01	1.16	.....	16	.....	.....	.....	.....
Reedsville, .....	.....	.....	32.6	.....	60	11	9	25	24	1.28	.....	1.04	.....	10	12	10	9	W
Renova, .....	672	.....	33.5	.....	63	10	7	25	28	3.54	.....	1.15	15.0	12	3	10	18	.....
Saegertown, .....	1,200	6	29.2	+0.4	59	10	-6	29	40	3.49	+0.13	0.65	10.2	16	0	6	25	SW
Scranton, .....	746	.....	31.8	.....	67	11	2	24	26	3.61	.....	0.90	12.0	9	7	4	20	W
Selinsgrove, .....	455	9	35.0	+2.6	62	21	6	26	29	3.19	+0.03	1.18	7.8	8	3	15	13	NW
Shingle House, .....	1,475	.....	27.9	.....	62	10	0	26	30	3.14	.....	1.02	12.0	7	0	7	24	NW
Smethport, .....	1,500	8	28.7	+0.1	61	10	0	29	35	3.25	-0.64	0.62	8.0	9	0	3	28	W
Somerset, .....	2,230	41	31.9	+2.9	53	11	0	25	40	5.50	+2.20	1.85	17.5	10	0	8	23	NW
South Bethlehem, .....	339	7	34.0	-1.5	59	2	10	26	33	4.22	+0.87	1.63	.....	9	9	11	11	W
South Eaton, .....	660	8	31.8	+0.5	63	11	4	24	20	4.73	+1.20	1.20	14.0	12	6	7	18	NW
State College, .....	1,191	10	31.8	-0.3	60	11	6	25	26	3.18	+0.43	0.50	9.5	11	2	7	22	W
St. Marys, .....	1,740	.....	28.2	.....	53	10	1	26	31	2.97	.....	0.83	10.0	8	1	3	27	W
Swarthmore, .....	190	9	35.4	0	60	11	13	28	21	3.94	+1.50	.....	2.0	.....	2	18	11	NW
Swiftwater, .....	1,600	.....	29.8	.....	57	11	2	24	24	5.91	.....	2.00	14.5	10	13	11	7	NW
Towanda, .....	754	.....	31.8	.....	65	11	3	26	28	2.78	.....	1.20	12.5	8	6	3	22	W
Uniontown, .....	681	10	36.3	-1.0	65	9	7	24	32	4.30	+0.52	0.78	.....	14	6	12	13	W
Warren, .....	1,137	9	29.2	.....	58	10	4	29	28	2.60	-0.96	0.40	11.0	16	9	0	22	N



Climatological Data for Pennsylvania, December, 1897—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.				Prevailing direction of wind.	
				Mean.		Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Number rainy days.	Number clear days.	Number partly cloudy days.		Number cloudy days.
Wellsboro, .....	Tioga, .....	1,327	19	31.4	+2.0	62	10	2	25	34	3.09	-1.16	1.05	11.0	8	5	3	23	S	
West Chester, .....	Chester, .....	455	43	35.0	+1.6	60	11	13	24	22	4.21	+0.27	1.94	4.2	15	14	5	12	NW	
Westtown k, .....	Chester, .....	350	9	31.7	.....	.....	.....	9	28	.....	2.89	.....	2.00	5.0	.....	6	5	9	NW	
White Haven, .....	Luzerne, .....	1,150	.....	30.6	.....	62	11	2	25	27	4.20	.....	0.88	13.0	15	2	18	11	S	
Wilkes-Barre, .....	Luzerne, .....	575	13	33.0	+2.2	64	11	8	24	27	3.80	-0.12	0.87	13.0	7	3	1	27	NE	
Williamsport, .....	Lycoming, .....	530	8	33.4	+3.5	61	11	9	25	23	3.64	+1.29	1.17	12.8	12	7	10	14	E	
York, .....	York, .....	385	10	34.9	+0.5	65	11	11	25	30	3.37	+0.40	0.56	4.4	11	8	15	8	W	

\*Extremes of temperature from observed readings of dry thermometers.  
1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4. 2 Mean of 8 a. m. + 8 p. m. + 2.  
The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.  
A roman letter following the name of a station, or placed against the data in the body of the form, indicates the number of days missing from the record; for instance, "n" denotes 14 days missing.

Maximum and Minimum Temperatures for Pennsylvania, December, 1897.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	42	22	46	25	33	29	44	23	40	28	35	42	35	28	48	29	56	38	61	38	61	42
Aqueduct, .....	41	28	35	31	35	36	33	36	38	35	42	42	39	39	50	31	55	37	56	34	58	43
Brookville, .....																						
Cannonsburg, .....	44	26	42	25	43	33	56	32	45	27	46	43	46	28	58	32	73	45	63	51	61	43
Carlisle, .....	41	24	38	29	32	29	32	29	40	32	43	43	39	30	49	29	51	33	56	31	64	37
Cassandra, .....	41	23	35	23	33	31	42	30	30	26	33	33	38	30	47	33	57	42	58	37	55	45
Centre Hall, .....	32	18	38	25	30	25	34	27	37	29	34	34	31	28	43	28	50	35	53	38	54	47
Chambersburg, .....	43	22	41	25	33	26	33	28	39	30	42	42	41	26	49	26	53	29	57	29	67	34
Coatesville, .....	45	20	41	30	31	29	31	29	45	31	38	38	48	26	51	27	60	27	66	32	68	46
Confluence, .....	30	19	40	26	46	28	38	34	46	30	30	30	31	25	40	24	60	24	63	28	59	33
Copetsburg, .....	43	24	49	29	35	29	37	29	43	33	55	55	49	29	55	28	63	33	67	39	65	46
Derry Station, .....	39	19	42	22	38	24	41	37	56	29	29	29	38	27	40	30	55	31	63	53	62	54
Drifton, .....																						
Dunmore, .....																						
Dushore, .....	34	15	31	15	31	22	41	26	39	29	36	36	38	28	44	25	52	34	60	34	57	45
Dyberry, .....	31	13	26	18	27	18	33	24	37	31	38	38	35	25	41	24	48	30	62	30	61	36
Easton, .....	40	24	39	27	32	28	34	27	40	34	40	40	43	31	45	29	50	35	57	38	61	46
Emporium, .....	38	18	32	17	32	30	40	31	42	28	35	35	37	32	45	27	50	35	61	35	58	44
Erie, .....	34	25	29	22	32	26	37	27	37	28	32	32	38	31	50	32	60	44	61	57	61	39
Everett, .....																						
Franklin, .....	36	20	34	17	36	30	46	31	53	28	34	34	39	29	46	21	56	34	60	40	57	41
Gettysburg, .....																						
Gramplan, .....	36	22	30	22	30	28	36	32	32	26	30	30	34	30	40	28	50	38	60	46	58	42
Greensboro, .....	40	20	45	22	41	34	56	39	55	30	33	33	44	27	58	26	65	36	63	36	57	40
Greenville, .....	33	30	33	23	37	31	51	37	37	25	32	32	37	33	46	30	60	40	59	51	57	41
Hallstead, .....	31	19	35	18	30	15	40	19	42	32	37	37	40	31	43	31	55	36	51	37	61	31
Hamburg, .....	39	27	38	29	32	30	39	32	39	37	37	37	41	32	48	30	51	34	56	39	60	44
Hamllinton, .....	30	18	32	18	25	20	31	23	39	36	35	35	36	26	45	23	52	34	57	40	55	48
Harrisburg, .....	40	27	39	32	34	29	33	30	39	33	40	40	40	35	48	33	51	36	57	39	63	50
Hawley, .....	50	21	44	18	43	26	33	22	50	32	47	47	54	25	60	24	49	30	66	32	63	45
Holidaysburg, .....	45	21	41	23	35	30	36	29	40	27	41	41	53	28	57	37	67	33	62	39	54	38
Huntingdon, .....	42	22	44	30	31	26	40	32	41	31	40	40	38	28	51	29	54	36	64	34	64	38

Maximum and Minimum Temperatures for Pennsylvania, December, 1897—Continued.

Stations.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Indiana, .....																						
Irwin, .....																						
Johnstown, .....	42	23	37	25	38	34	42	34	48	28	37	31	40	30	52	34	62	42	64	38	60	42
Kennett Square, .....	43	20	42	29	35	29	35	30	43	33	40	27	42	28	51	27	58	29	63	34	62	45
Lancaster, .....																						
Lawrenceville, .....	37	18	29	18	32	25	40	25	38	32	24	29	38	30	42	28	54	32	59	34	60	48
Lebanon, .....	39	23	39	30	34	28	33	28	38	31	39	31	41	31	48	29	53	33	62	38	65	45
Le Roy, .....	34	16	26	14	26	18	38	24	37	27	33	27	35	27	40	27	50	32	59	37	56	44
Lewisburg, .....	38	19	36	25	32	29	36	30	39	32	36	31	37	31	45	30	51	33	60	34	63	45
Lack Haven, .....	40	19	39	24	32	27	36	30	39	32	36	31	39	32	47	26	52	36	61	35	59	38
Lycippus, .....	40	17	44	21	37	22	41	33	57	27	38	24	30	27	42	31	56	40	62	40	62	51
Mauch Chunk, .....	36	20	35	25	31	26	34	27	40	33	38	31	40	28	48	25	51	33	62	33	62	35
Philadelphia (a), .....	46	26	40	33	33	31	40	30	46	34	43	33	48	35	52	39	58	33	63	44	62	48
Philadelphia (b), .....	43	27	40	33	35	30	38	30	46	34	41	32	47	34	51	36	55	32	63	42	61	48
Pittsburgh, .....	43	28	37	27	40	37	58	38	48	30	34	30	43	31	56	36	65	50	63	55	60	43
Pottstown, .....	43	25	32	30	40	32	36	30	42	37	42	32	46	32	48	30	53	33	64	38	64	50
Quakertown, .....	42	20	38	27	30	26	34	26	42	32	42	29	45	24	49	23	55	29	62	34	63	44
Reedsville, .....	37	19	39	29	37	29	39	30	37	27	38	32	36	33	45	27	50	36	57	33	67	36
Renova, .....	41	19	36	22	33	28	30	31	41	30	35	30	39	31	47	30	54	36	63	35	59	41
Saegertown, .....	34	14	32	2	34	22	46	24	49	23	29	23	35	25	47	26	57	31	59	41	57	35
Scranton, .....	34	20	32	20	34	23	40	28	40	33	39	31	42	28	41	29	52	34	60	34	67	42
Sellsgrove, .....	38	18	37	25	38	28	35	29	40	33	36	30	39	33	38	29	54	35	59	35	60	40
Shingle House, .....	42	24	36	8	31	23	36	28	44	24	40	28	38	28	47	23	45	35	62	36	58	38
Smethport, .....	33	14	32	8	32	26	38	28	29	26	32	26	35	26	43	23	56	32	61	34	54	40
Somerset, .....	30	18	36	22	34	20	44	40	42	24	28	22	36	26	46	30	58	40	56	32	58	40
South Bethlehem, .....	48	24	59	26	52	24	38	21	39	29	40	28	39	32	42	37	49	34	50	36	56	52
South Eaton, .....	35	19	37	21	30	24	39	29	40	33	38	32	41	30	46	26	56	35	62	40	63	49
State College, .....	39	18	34	24	31	27	35	29	37	22	34	28	37	31	44	30	54	38	60	38	60	46
St. Marys, .....	22	13	29	15	29	25	27	27	27	24	29	25	34	27	40	23	53	34	58	38	54	40
Swarthmore, .....	42	27	38	32	33	32	41	32	41	32	41	33	47	30	48	30	51	32	58	40	60	47
Swiftwater, .....	34	16	35	22	28	22	34	25	38	30	36	25	38	25	40	25	48	31	57	34	57	47
Towanda, .....	36	20	35	20	29	23	42	28	41	33	37	32	39	32	46	30	54	34	62	36	65	50

Unlontown, .....	45	22	40	27	44	36	56	42	42	28	33	28	41	33	59	31	65	50	63	51	56	46
Warren, .....	32	11	32	12	39	13	38	28	39	26	32	21	35	22	40	26	46	35	53	41	55	36
Wellsboro, .....	38	17	33	16	34	24	37	30	34	30	35	30	37	32	45	26	60	26	62	40	53	43
West Chester, .....	41	23	39	31	33	29	35	29	40	31	39	30	45	31	48	33	53	31	60	38	60	47
Westtown, .....	40	22	37	31	31	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
White Haven, .....	33	19	27	21	29	24	37	21	36	30	34	27	36	29	43	25	52	32	60	33	62	47
Wilkes-Barre, .....	37	21	37	23	31	26	41	25	42	31	39	30	41	31	54	27	56	30	56	34	64	50
Williamsport, .....	38	20	34	24	35	26	44	29	40	34	36	31	39	32	44	29	50	33	59	38	61	39
York, .....	42	23	37	29	32	30	34	30	40	32	38	32	43	33	48	29	53	31	62	32	65	42

Maximum and Minimum Temperatures for Pennsylvania, December, 1897—Continued.

Stations.	12.		13.		14.		15.		16.		17.		18.		19.		20.		21.		22.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona .....	47	38	43	30	44	36	44	39	48	33	50	31	38	20	28	19	31	17	36	30	32	23
Aqueduct. ....	51	47	47	39	43	43	43	45	51	35	50	37	37	31	34	26	30	24	40	34	40	34
Brookville, .....																						
Cannonsburg, .....	49	39	58	34	50	33	50	38	55	34	52	33	37	21	27	19	45	19	44	29	38	24
Carlisle, .....	52	40	45	31	43	38	46	41	45	37	49	36	37	24	35	22	30	21	35	30	35	28
Cassandra, .....	45	37	41	32	39	36	39	36	46	34	50	33	33	19	23	17	36	21	39	30	32	27
Centre Hall, .....	52	34	40	34	42	34	42	38	48	33	45	30	46	21	36	18	24	17	35	19	22	28
Chambersburg, .....	52	32	44	25	44	35	46	38	52	20	50	33	30	23	31	29	30	19	57	28	38	28
Coatesville, .....	58	43	48	32	45	38	45	42	53	31	53	34	48	27	39	21	27	20	40	27	32	29
Confluence, .....	59	39	39	29	40	30	46	37	39	30	51	30	50	21	34	18	24	19	38	27	23	30
Coopersburg, .....	55	41	55	32	55	37	55	42	54	39	55	39	44	27	44	23	30	19	43	27	37	28
Derry Station, .....	59	39	46	29	49	39	49	39	42	34	49	29	51	20	23	16	31	20	41	31	31	28
Drifton, .....																						
Dunmore, .....																						
Dushore, .....	48	34	37	29	42	33	43	38	45	32	47	25	43	19	24	15	38	11	33	20	36	14
Dyberry, .....	40	35	45	31	38	30	43	35	43	25	44	29	29	19	21	13	22	8	29	22	29	19
Easton, .....	58	40	44	32	42	40	54	40	47	40	50	40	44	24	30	16	24	16	36	24	35	28
Emporium, .....	44	38	40	33	44	37	44	40	45	38	45	28	37	22	26	22	33	18	34	31	31	24
Erie, .....	41	35	43	37	47	42	42	38	46	34	44	23	23	18	25	19	34	19	33	28	27	19
Everett, .....																						
Franklin, .....	43	36	42	36	46	39	46	38	44	36	42	34	40	33	35	22	35	19	38	12	36	—
Gettysburg, .....																						
Gramplan, .....	42	36	40	32	42	36	40	38	44	32	46	28	28	18	22	18	32	30	30	28	28	20
Greensboro, .....	53	30	48	29	50	43	45	38	52	30	51	33	51	19	27	17	46	23	46	33	35	28
Greenville, .....	46	36	42	36	45	37	46	40	43	39	40	36	36	18	21	17	35	26	37	27	30	25
Hallstead, .....	43	32	41	34	42	31	47	39	46	24	41	21	23	14	.....	.....	27	10	30	21	33	25
Hamburg, .....	49	47	47	34	49	42	48	45	46	35	49	42	42	30	33	25	34	19	37	24	36	32
Hamlington, .....	54	34	41	30	34	20	42	33	41	33	44	31	42	19	22	16	22	9	28	22	30	23
Harrisburg, .....	53	42	43	38	44	39	48	42	48	37	50	40	50	25	32	23	31	22	38	31	36	29
Hawley, .....	56	34	55	31	42	31	42	37	51	24	44	32	52	20	24	18	26	11	32	11	32	30
Hollidaysburg, .....	43	29	44	26	55	39	55	33	58	30	47	21	32	20	33	16	37	30	34	26	28	16
Huntingdon, .....	66	40	65	39	46	38	46	40	56	32	50	32	48	24	31	22	32	18	51	31	36	28



Maximum and Minimum Temperatures for Pennsylvania, December, 1897—Continued.

Stations.	23.		24.		25.		26.		27.		28.		29.		30.		31.		Monthly mean.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
Altoona, .....	24	13	19	7	32	6	30	23	31	22	30	10	38	17	44	35	40	19	39.8	26.0
Aqueduct, .....	34	20	24	13	31	8	40	27	34	22	34	12	36	25	55	36	37	24	41.9	31.0
Brookville, .....																				
Cannonsburg, .....	27	12	41	4	53	10	52	10	31	23	44	21	39	27	55	35	40	22	47.1	27.7
Carlisle, .....	31	19	26	13	32	9	38	20	37	26	35	15	35	13	54	30	41	28	40.8	27.5
Cassandra, .....	21	15	15	7	40	6	34	29	29	22	27	11	37	18	42	26	35	22	38.0	26.4
Centre Hall, .....	28	10	19	7	24	6	35	20	30	22	26	13	29	16	40	28	38	31	36.7	25.5
Chambersburg, .....	38	18	23	10	32	7	42	15	34	25	31	13	36	15	53	34	35	26	42.1	25.4
Coatesville, .....	33	21	28	14	36	12	44	17	40	15	35	9	38	7	55	32	45	28	44.3	26.5
Confluence, .....	32	21	23	6	15	0	42	0	41	23	23	23	33	21	38	27	48	36	39.9	24.7
Copersburg, .....	36	20	30	10	38	14	46	22	36	26	43	14	37	9	57	29	38	33	46.4	28.4
Derry Station, .....	31	20	20	7	16	0	42	5	32	21	27	12	32	14	39	32	45	33	40.4	26.4
Drifton, .....																				
Dunmore, .....																				
Dushore, .....	25	12	15	0	22	-3	43	22	30	19	22	4	30	2	40	29	34	23	37.4	21.9
Dyberry, .....	22	12	12	0	30	-3	36	20	28	20	23	11	24	-5	39	21	29	20	34.4	20.9
Easton, .....	33	20	23	8	25	10	35	22	32	18	29	11	34	8	48	27	43	32	40.2	27.3
Emporium, .....	25	16	18	9	32	3	34	24	31	23	27	19	36	10	38	35	36	23	37.7	26.5
Erie, .....	22	15	18	10	39	9	34	28	28	23	26	16	39	15	40	34	36	19	37.7	27.1
Everett, .....																				
Franklin, .....	37	-6	35	-4	47	16	38	20	31	15	25	12	38	-1	37	33	40	22	41.0	23.4
Gettysburg, .....																				
Gramplan, .....	20	12	12	6	30	0	30	26	26	16	20	10	32	16	36	32	32	20	34.4	25.6
Greensboro, .....	48	20	20	2	41	4	34	29	31	22	32	18	34	29	49	32	43	28	44.9	27.6
Greenville, .....	25	9	14	8	40	16	41	25	31	20	27	19	38	32	40	32	32	25	38.4	28.6
Hallstead, .....	26	14	15	3	29	0	34	24	32	22	23	10	29	4	40	20	38	24	36.9	22.4
Hamburg, .....	32	27	27	12	30	13	36	25	33	28	31	12	34	15	50	33	36	35	40.6	30.8
Hamilton, .....	29	13	19	0	31	4	31	21	30	21	22	10	24	7	37	21	37	29	35.6	23.0
Harrisburg, .....	29	19	22	15	30	13	39	24	33	27	31	19	36	19	51	35	40	26	40.9	30.4
Hawley, .....	28	11	15	1	42	3	43	22	46	20	27	5	29	0	41	17	40	29	42.7	22.0
Holidaysburg, .....	20	8	37	3	37	19	33	23	.....	.....	33	9	38	14	49	33	42	24	42.5	25.4
Huntingdon, .....	30	20	31	11	30	6	46	26	36	26	32	11	37	14	49	32	46	26	44.4	27.5





Daily Precipitation for Pennsylvania, December, 1897.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Delaware Basin.																
Bethlehem, .....			.13	1.15	.....	.....	.....	.....	.....	.....	.....	.45	.....	.....	1.63	.....
Browsers' Lock, .....			.37	.23	.69	.....	.....	.....	.....	.....	.....	.39	.....	1.30	.62	.....
Coatesville, .....			.32	.54	.56	.....	.....	.....	.....	.....	.....	.35	.....	2.06	.10	.....
Coopersburg, .....		.06	*	.49	.74	.....	†	.....	.....	.....	.....	.48	.....	1.67	.32	.....
Doylestown, .....			.10	.67	.38	.....	.....	.....	.....	.....	.....	.54	.....	1.75	.27	.....
Dyberry, .....	†	†	†	.30	.88	.....	.05	.....	.....	.....	.....	.59	.....	1.14	.42	.....
Easton, .....			.03	1.20	.07	.....	†	.....	.....	.....	.....	.64	.....	2.04	.42	.....
Forks of Neshaminy, .....			.15	.47	.51	.....	.....	.....	.....	.....	.....	.51	.....	2.13	.39	.....
Frederick, .....			.07	.39	.93	.....	.....	.....	.....	.....	.....	.37	.....	1.47	.28	.....
Hamburg, .....			*	2.60	.....	.....	†	.....	.....	.....	.....	.62	.....	*	1.71	.....
Hamlington, .....			.08	.14	.90	.....	.07	.....	.04	.....	.....	.64	.....	.80	.63	.01
Hawley, .....			.05	1.20	.....	.....	.04	.....	.....	.....	.....	.63	.....	*	1.53	.....
Honesdale, .....			.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kennett Square, .....			.12	.55	.42	.....	.....	.....	.....	.....	.....	.50	.....	1.55	.73	.....
Lansdale, .....			.14	.60	.37	.....	.....	.....	.....	.....	.....	.30	.....	1.91	.59	.....
Mauch Chunk, .....			.13	.20	.98	.....	.....	.....	.....	.....	†	.54	.....	1.15	.67	.....
Ottaville, .....			.16	.51	.50	.....	.....	.....	.....	.....	.....	.45	.....	1.52	.76	.....
Philadelphia (a), .....			.21	.34	.47	.....	.....	.....	.....	.....	†	.50	.....	2.02	.23	.....
Philadelphia (b), .....			.31	.38	.36	.....	.....	.....	.....	.....	†	.56	.....	1.99	.25	.....
Point Pleasant, .....			.10	.40	.62	.....	.....	.....	.....	.....	.....	.48	.....	1.75	.54	.....
Pottstown, .....		.20	.....	.75	.72	.....	.....	.....	.....	.....	.35	.....	.....	2.30	.....	.....
Quakertown, .....			†	.25	1.22	.....	†	.....	.....	.....	.....	.45	.....	1.23	.60	.....
Reading, .....			.21	.53	.62	.....	.....	.....	.....	.....	.....	.44	.....	1.16	.41	.....
Selsholtzville, .....			.15	.51	.80	.....	.....	.....	.....	.....	.....	.50	.....	1.67	.40	.....
Shawmont, .....			.12	.45	.32	.....	.....	.....	.....	.....	.....	.44	.....	1.50	.28	.....
Smiths' Corners, .....			.16	.32	.67	.....	.....	.....	.....	.....	.....	.59	.....	1.63	.49	.....
Swiftwater, .....			.10	.38	.60	.....	†	.....	.....	.....	.82	.....	2.00	.18	.....	.....
West Chester, .....			.19	.45	.38	.....	.....	.....	.....	.....	.....	.45	.....	1.94	.10	.....
White Haven, .....			.10	.40	.72	.....	.02	.....	.....	.....	.....	.30	.....	.88	.48	.....



Daily Precipitation for Pennsylvania, December, 1897—Continued.

Stations.	Day of Month.															
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
Elwood Junction, .....				.04	.23		.10	.04			.19	.10		.20	.91	.02
Franklin, .....				.43	.15	.18	†				†			1.43		
Freeport, .....				.05	.70	.03	.15	.04			.18	.09		.08	.98	
Greensboro, .....			.10	.50	.50		†				.12	.11	†	.70	.35	
Greenville, .....	†			.12	.03		.03				.31	.01		.97	.43	†
Indiana, .....																
Irwin, .....			.14	.51	†	†	.04			.04	.04		.02	.87	†	
Johnstown, .....				.05	.90	.01	.01	.08			.07	.08		.04	.51	.02
Lock No. 4, .....				.30	.48						.05	.03	.01		.75	
Lycippus, .....			.15	.75	.02	.03	.02			.05	.13		.05	.01	†	
Oil City, .....	†			.02	.41		.28	.03			.17	†		.27	1.13	†
Parkers' Landing, .....				.01	.55			.24			.25	.05		.18	1.00	
Pittsburgh, .....			†	.22	.30	†	.03				.16	.03	†	.52	.31	
Ridgway, .....				.04	.65		.12	.07			.29			.05	.87	.02
Saegerstown, .....				.14		†	.27				.37	.04		.65	.65	
Shingle House, .....				.08			.20					†		1.02	†	
Smethport, .....				.30	.45		.30				.25			.33	.62	
Somerset, .....				1.10					.25					.45	.20	
St. Marys, .....	†			.73		.22	.02	.07			.09			•	.81	
Untontown, .....			.07	.78	.20			†			.11	.14	†	.66	.22	
Warren, .....				.20	.20		.31		.10		.15	†		.40	.20	
West Newton, .....				.13	.61	†	†	†			.03	.08	†	.01	.68	.02
Potomac Basin.																
Chambersburg, .....			.06	.42	.25							.12		.42	.17	
Lake Basin.																
Erie, .....	.04	.03	†	.12	.05	.02	.02	†			.24	.03	†	.53	.65	

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

Daily Precipitation for Pennsylvania, December, 1897—Continued.

Stations.	Day of Month.															Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	
Delaware Basin.																
Bethlehem, .....				.10		.08				.12			.13		.43	4.42
Browsers' Lock, .....		.08			.08	.11				.19			.05		.21	4.32
Coatesville, .....	.10			†	.06	.25	.05			.25			.06		.26	4.96
Coopersburg, .....	.02				.10	.09	†			.16				.15	.48	4.76
Doylestown, .....	.06			.18		.17				.25					.31	4.68
Dyberry, .....	†	†	†	.25		.11	†			.06	†		†	.11	.80	4.71
Easton, .....	†	†		.01	.01	.05	†			.20			.16		.90	5.63
Forks of Neshaminy, .....	.05			*	.06	.06				.20				.05	.58	5.16
Frederick, .....	.05				.09	.12				.21				.04	.24	4.26
Hamburg, .....	†			.12		.12				.12			.20		.76	6.25
Hamlington, .....	.02	.04	.01	.09		.16		.05		.14			.02	.17	1.20	5.21
Hawley, .....	.05	.20		.05		.16				.14					1.00	5.05
Honesdale, .....																
Kennett Square, .....	.10			.01		.10	.02			.25					.24	4.59
Lansdale, .....	.05			.11		.14				.27					.21	4.69
Mauch Chunk, .....				.02	.15	.12				.11			†	.19	.90	5.16
Ottaville, .....						.19				.24					.36	4.71
Philadelphia (a), .....	.04	†		.02	†	.12	†			.15				.03	.39	4.52
Philadelphia (b), .....	.04	†		.02	†	.05	†	†		.14				.05	.40	4.55
Point Pleasant, .....				.01	.04	.02				.25				.06	.30	4.57
Pottstown, .....	.07					.20				.20			.12		.09	5.00
Quakertown, .....	†	.07	†	†	.09	.14	†			.19				.10	.30	4.70
Reading, .....	.02			.03	.02	.12	.01	.02		.07			.02	.05	.27	4.00
Selsholtzville, .....	.04			.06		.14				.13				.08		4.48
Shawmont, .....	.07				.04	.05				.13				.03	.44	3.87
Smiths' Corners, .....					.06	.10				.22				.08	.23	4.57
Swiftwater, .....				†		.18	†			.10			†	.45	1.10	5.91
West Chester, .....	.11	.02		.01	.01	.10	.01			.19				.02	.23	4.21
White Haven, .....	†		†	.03	.05	.15		.10		.10			.05	.02	.80	4.20

Daily Precipitation for Pennsylvania, December, 1897--Continued.

Stations.	Day of Month.																Total.
	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.		
Susquehanna Basin.																	
Altoona, .....	.22	†		.22		.06	.01			†			.16	†	.95	3.54	
Aqueduct, .....	†			.02		.26	†			.04		†	.06		.71	3.15	
Carlisle, .....					.10	.40								.05	.40	3.29	
Centre Hall, .....	.10			.05	.05	.05	.10						.20		1.45	4.19	
Drifton, .....																	
Dunmore, .....																	
Dushore, .....	.02		†	†		.05	.09			†	†		.06		1.40	2.74	
Emporium, .....	.49	†	†	.12	†	†	†				†	†	.38	.10	.62	4.20	
Everett, .....	.05				•	•	•	•	•	•	•	•	•	•	.88	3.96	
Gettysburg, .....																	
Girardville, .....						.20	.10			.27			.18		1.20	5.92	
Gramplan, .....	.42				.55		.10			.10			.20		1.00	4.57	
Hallstead a, .....			†	.08		.08	.15								1.30	4.00	
Harrisburg, .....	†			†	.02	.21	†	†		.02			.01	†	.40	3.21	
Holidaysburg, .....	.04		.15	.05									.16		.88	3.46	
Huntingdon, .....	.07				.06	.14							.12		.86	3.19	
Lawrenceville, .....	.07	†		.05	†		.02							.05	.65	2.02	
Lebanon, .....	.02	†		.65	.02	.25	†			.04			.01		.44	4.05	
Le Roy, .....	.04		.01	.02	†	.10	.10						.02		1.00	2.89	
Lewisburg, .....				.05		.10							.09		.70	3.94	
Lock Haven, .....	.15												.05		.60	2.96	
Reedsville, .....	†	.03		.02	†	.02	†		†	†			.01	.03	†	1.28	
Renova, .....	.21			.04			.10				†		.22		1.15	3.54	
S. ranton, .....						.20				.10					.90	3.64	
S. linsgrove, .....						.10	.08			†					.13	3.19	
South Eaton, .....	.05			.03		.04	†			.05				.16	1.20	4.13	
State College, .....	.16			†	.15	.15	†	†					.15	†	.50	3.18	
Towanda, .....	†	†	†	†	†	†	†	†		†	†		†	†	1.20	2.78	
Wellsboro, .....	.50	†		.02		†	.10			†	†		.20		.80	3.09	
Wilkes-Barre, .....						.20			.20				.10		.80	3.80	
Williamsport, .....	.67			.66			.08						.15		1.17	3.64	
York, .....	†	†		.06		.17	†			.10			†	.05	.19	2.37	

Ohio Basin.														
Beaver Dam, .....														2.82
Brookville, .....	.23	.30	.03	.24	.04	.09	.11						.12	.28
Cannonsburg, .....	.52	.25	.12	.03	.03	.20	.11	.02	.03	.03	.11	.06	.19	1.25
Cassandra, .....	.34	†	.06		.03	.10						.25	.20	1.15
Confluence, .....	*	.32	.03	.13	.20	.10	.10	.10				.25	.13	.60
Davis Island Dam, .....		.28	†	.40	.01	†	.01	†	†			†	.16	.38
Derry Station, .....	.43		1.07	.06	.05	.10	.11					.09	.13	.12
Elwood Junction, .....		.35	†	.35	.01	.02	.09					.03	.21	.15
Franklin, .....					.20	.15	.10		.02	.10			.27	.18
Freeport, .....		.34	†	.56	.04	.03	.02	†			†		.21	.17
Greensboro, .....	.25	†	.35	.30	.10	.10	.02	.05	.01		.10	.10	.05	.34
Greenville, .....	.41	.10	.19	.05	.15	.18	.25		.35	†	.60			1.15
Indiana, .....														.50
Irwin, .....	.35	†	.57	.06	†								.79	4.73
Johnstown, .....	*	.48	*	.65	.17	.02	.08		.02	†	.03		.15	.80
Lock No. 4, .....		.30	.03	.50	.05		.05						.12	.07
Lycippus, .....	.32		.99	.07	.05	.07					.09		.89	.67
Oil City, .....		.43		.21	.02	.05	.09	†		.06	†		.22	.82
Parkers' Landing, .....		.50		.30							.08		.12	.63
Pittsburgh, .....	.22	†	.25	.10	†	.01	†		.01	†	.13		†	.10
Ridgway, .....		.57		.27	.05	.05			.06		.05		.15	3.38
Saegerstown, .....	.33	.15			.05	.10	.21			.05	.15		.20	3.44
Shingle House, .....	.84	†				.30					.15		.40	3.46
Smethport, .....	.50				.10						†		.30	3.49
Somerset, .....			.90			.22					.20		.40	2.14
St. Marys, .....			.20		.15	†			†	.08		.20		3.25
Uniontown, .....	.49		.45	.29		.10		.09				.20		5.50
Warren, .....	.10	.02		.11	.10		.20		.10		.11	.11	.10	2.97
West Newton, .....	†	.27	†	.71	†	†	†	†	†	†	†	†	.23	.50
Potomac Basin.														
Chambersburg, .....			.07		.19	.01					.02			1.83
Lake Basin.														
Erle, .....	.42	.03	.01	.09	.04	.09	.05	†	†	†	.05		.01	.20
														.01
														2.73

\*Precipitation included in that of following day.  
†Trace, when precipitation is less than 0.01 inch.  
‡Report missing.

Monthly and Annual Mean Temperature for the Year 1897, with Departures from the Normal.

Stations.	January.		February.		March.		April.		May.		June.		July.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
Altoona, .....	24.2	-4.0	30.2	-0.3	40.0	+1.6	47.8	-1.2	57.6	-2.4	64.6	-6.9	72.6	+0.8
Aqueduct, .....	29.0	-1.4	32.9	+0.9	41.6	+2.7	52.3	+0.2	62.4	-0.5	68.7	-4.1	78.0	+3.9
Blooming Grove, .....	22.2	-1.8	25.1	-0.3	33.6	+2.4	45.6	+0.9	55.3	-2.1	60.5	-6.7	70.6	+0.2
Cannonsburg, .....	*27.6	-0.7	*35.3	+3.4	*45.5	+6.3	*51.2	+2.3	*58.0	-1.4	*67.9	-0.5	*75.8	+2.6
Carlisle, .....	27.3	-0.8	31.2	+1.3	41.0	+3.4	50.6	+0.5	*60.8	-0.3	67.4	-3.8	76.0	+1.2
Cassandra, .....	24.2	.....	30.9	.....	40.3	.....	46.4	.....	54.4	.....	62.4	.....	70.4	.....
Centre Hall, .....	23.6	.....	29.4	.....	37.7	.....	48.6	.....	57.9	.....	62.9	.....	70.6	.....
Chambersburg, .....	25.0	-3.7	29.8	-1.9	40.0	+2.6	48.8	-1.1	57.6	-3.3	66.1	-3.4	74.0	-0.9
Coatesville, .....	28.2	-1.9	32.4	+1.8	42.2	+5.6	51.2	+1.8	61.5	+1.5	67.5	-3.0	75.7	+3.3
Confluence, .....	24.2	.....	29.8	.....	39.6	.....	48.8	.....	57.6	.....	66.0	.....	74.4	.....
Coopersburg, .....	29.8	+0.1	34.5	+3.6	41.4	+5.3	50.3	+1.4	59.8	+0.2	65.3	-4.6	73.8	+2.4
Derry Station, .....	*27.1	.....	.....	.....	*39.9	.....	*49.2	.....	*57.4	.....	*66.3	.....	75.5	.....
Drifton, .....	*23.2	.....	*27.8	.....	*36.3	.....	*48.1	.....	*55.6	.....	.....	.....	.....	.....
Dunmore, .....	26.0	.....	27.3	.....	34.8	.....	47.0	.....	57.0	.....	62.8	.....	73.4	.....
Dushore, .....	.....	.....	28.6	.....	34.0	.....	45.9	.....	54.9	.....	61.8	.....	71.2	.....
Dyberry, .....	22.2	+1.1	25.0	+2.6	32.9	+4.0	45.2	+2.8	55.4	+0.9	60.1	-4.5	70.2	+2.9
Easton, .....	27.6	+1.6	31.1	+2.9	39.0	+3.1	50.1	+1.2	61.2	+1.2	66.2	-4.7	74.4	+0.3
Edinboro 1, .....	21.9	-2.6	24.7	+1.0	35.2	+3.0	43.5	-1.8	53.6	-3.6	62.8	-4.3	72.8	+3.4
Emporium, .....	24.0	-3.2	29.5	+2.5	37.8	+3.2	47.2	-1.4	56.8	-4.2	63.1	-6.5	72.6	+2.3
Erie, .....	24.5	-3.5	28.2	+0.2	36.4	+4.4	45.9	+1.0	53.7	-3.3	62.3	-4.7	73.0	+1.0
Everett, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	64.2	.....	71.6	.....
Forks of Neshaminy 1, .....	29.4	-2.9	33.9	+2.3	41.9	+3.6	52.0	+1.1	64.3	+4.4	67.4	-3.3	75.0	+2.0
Franklin, .....	*20.2	-3.5	28.2	+3.9	39.4	+7.0	47.9	+4.6	55.1	+0.5	63.2	+0.7	73.5	+6.5
Gettysburg, .....	28.8	+1.0	*33.5	+2.8	41.4	+2.5	52.3	+2.4	.....	.....	69.4	-0.4	.....	.....
Grampian, .....	21.0	-1.9	26.8	+2.2	36.8	+6.1	46.0	+2.3	55.4	-1.4	63.7	-1.3	72.7	+2.3
Greensboro, .....	25.7	.....	35.6	.....	46.3	.....	49.5	.....	59.0	.....	68.4	.....	.....	.....
Greenville, .....	.....	.....	28.6	+2.3	39.0	+6.1	47.2	+1.4	54.3	-2.4	63.2	-3.8	70.8	+1.9
Hallstead, .....	*24.6	.....	27.4	.....	*34.6	.....	*47.0	.....	*56.2	.....	*60.6	.....	*72.2	.....
Hamburg, .....	28.4	-0.5	32.6	+4.7	40.4	+3.7	52.0	+2.6	63.0	+2.5	68.2	-3.4	75.8	+3.0
Hamlington, .....	23.5	-2.0	28.0	+3.8	34.1	+3.0	46.7	+2.0	55.8	-1.3	62.0	-5.9	70.7	+1.9

Harrisburg, .....	27.7	-2.3	32.1	+1.1	41.1	+4.1	50.3	-.02	60.6	-0.4	67.4	-2.6	75.5	+1.5
Hawley, .....														
Holidaysburg, .....	25.3	-3.0	30.7	+1.4	40.9	+5.3	*50.6	+1.5	58.3	-1.6	*65.4	-5.5	73.5	+2.7
Huntingdon, .....	27.0	-1.4	32.7	+3.4	41.4	+5.2	50.2	+1.4	58.2	-1.3	65.8	-3.7	*73.8	+3.1
Indiana, .....	26.8	-3.1	35.2	+3.0	*43.2	+4.7	*51.2		56.8	-4.4	*66.0	-3.5	69.6	+0.5
Irwin, .....	30.4		*38.5											
Johnstown, .....	25.0	-5.5	31.9	-2.5	42.0	+4.8	49.4	-0.6	57.0	-2.6	65.5	-5.0	74.3	+2.9
Kennett Square, .....	29.0	-0.8	33.4	+2.0	42.6	+5.8	51.0	+3.2	60.7	+1.0	66.3	-4.1	74.8	+2.5
Lancaster, .....	*25.2	-4.5			*41.5	+4.7	49.3	-0.3	*56.8					
Lawrenceville, .....	23.6		*28.0		36.8		*47.6		57.6		*66.4		74.0	
Lebanon, .....	*27.5	0	30.9	+0.9	40.0	+4.0	49.3	+0.7	59.8	+0.2	66.4	-3.7	75.0	+3.8
Le Roy, .....	21.6	-2.9	25.8	+2.4	32.4	+0.4	44.8	+0.4	55.0	-1.8	61.6	-6.3	71.9	+2.7
Lewisburg, .....	26.5	-2.0	29.8	+3.2	38.8	+5.3	49.9	+1.2	58.4	-0.3	*65.5	-4.1	74.8	+2.4
Lock Haven, .....	27.6	-0.4	32.2	+4.0	40.6	+5.4	51.5	+3.2	60.7	+0.4	66.9	-3.8	74.4	+4.1
Lycippus, .....	25.4	-3.3	31.4	+3.9	42.0	+2.6	50.0	-0.7	57.6	-3.6	67.2	-3.1	76.0	+4.3
Mauch Chunk, .....	25.6	-2.1	29.8	+0.6	37.8	+2.9	50.0	+2.4	59.5	+0.3	64.6	-5.0	73.6	+3.6
Philadelphia (a), .....	30.6	-1.4	35.2	+1.2	43.1	+4.1	52.6	+1.6	62.6	+0.6	68.9	-3.1	76.4	+0.4
Philadelphia (b), .....	31.2	-0.8	35.4	+1.9	43.4	+3.1	53.0	+0.6	63.0	+0.5	69.0	-4.4	76.5	+1.0
Pittsburgh, .....	27.0	-5.0	35.0	+2.0	44.5	+5.5	51.0	0	58.0	-4.0	68.0	-4.0	76.0	+2.0
Pottstown, .....	28.0	-2.4	33.1	+2.5	42.6	+4.3	52.3	+1.6	63.0	+0.8	69.4	-3.4	76.2	+2.3
Quakertown, .....	26.4	-0.6	30.0	+1.0	38.8	+4.1	48.8	+1.0	59.4	+0.2	64.0	-4.3	*74.3	+2.8
Reading 2, .....	27.4	-2.7	30.8	0	39.8	+1.1	50.3	-0.6	60.4	-0.9	67.4	-4.1	75.6	+0.4
Reedsville, .....														
Renova, .....	25.2		30.6		38.8		49.4		58.9		66.4		73.6	
Saegerstown, .....	21.2	-1.0	27.2	+4.2	37.2	+4.0	45.5	0	53.7	-2.2	61.2	-6.4	71.1	+3.2
Scranton, .....	25.7		29.8		37.2		48.4		58.0		63.2		72.4	
Sellsgrove, .....	27.6	-2.1	31.4	+4.1	38.6	+1.5	50.4	+1.2	58.6	-2.1	69.2	-2.0	75.6	+2.5
Shingle House, .....	22.0		26.3		36.0		47.6		53.4		59.8		71.3	
Skippack, .....	28.0		32.4		40.1		*49.6		58.6		64.5			
Smethport, .....	21.9	-1.5	26.4	+3.4	35.6	+3.1	44.8	+0.9	53.2	-2.0	60.4	-5.9		
Somersett, .....	19.6	-6.5	28.4	+0.2	39.0	+4.0	47.0	+0.7	52.6	-4.2	62.0	-4.4	70.3	+1.3
South Bethlehem, .....	29.0	-0.2	35.2	+5.7	39.7	+5.4	50.2	-0.5	59.5	-2.5	66.4	-5.4	76.3	+4.0
South Eaton, .....	26.5	-0.1	29.0	+1.4	30.4	+3.1	48.1	+1.8	56.8	-0.4	62.2	-5.9	72.0	+3.3
State College, .....	*23.0	-4.6	*29.2	+1.8	38.2	+4.7	48.0	+0.4	57.6	-0.8	64.1	-4.2	71.5	+2.1
St. Marys, .....	21.8		26.9		35.2				53.7		*60.9		70.2	
Swarthmore, .....	28.6	-3.4	33.6	-0.3	42.3	+4.1	52.8	+2.3			68.5	-2.8	*76.4	+3.1
Swiftwater, .....	*19.9		27.2		34.6		46.6		55.5		*61.2		69.5	
Towanda, .....	25.2		28.6		36.5		48.0		56.7		62.6		72.6	
Uniontown, .....	28.0	-5.2	35.4	+1.2			50.1	-1.1	56.6	-4.9	*65.2	-6.7	73.5	+1.7
Warren, .....	23.2		28.2		37.4		46.7		55.5		61.6		72.0	
Wellsboro, .....	24.1	-0.3	27.8	+2.2	34.9	+4.1	45.6	-1.2	53.7	-3.4	59.8	-5.0	71.0	+2.9
West Chester, .....	28.6	-1.4	32.4	+0.9	41.8	+4.4	51.0	+2.0	60.5	+0.4	66.8	-3.5	74.8	+1.0
Westtown, .....	*26.8	-5.1	*31.7	+0.5	*41.0	+4.0								



Monthly and Annual Mean Temperature for the Year 1897, with Departures from the Normal—Continued.

Stations.	January.		February.		March.		April.		May.		June.		July.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
White Haven, .....	24.2	.....	26.3	.....	34.9	.....	46.2	.....	54.8	.....	60.4	.....	70.8	.....
Wilkes-Barre, .....	29.1	+2.5	31.9	+3.1	38.4	+4.4	51.1	+2.6	59.6	-0.6	65.2	-5.7	74.8	+3.6
Williamsport, .....	25.8	0	30.6	+3.9	38.8	+6.9	49.6	+5.6	59.0	-0.1	64.0	-5.8	73.0	+0.3
York, .....	27.9	-1.6	30.5	-0.2	42.4	+4.8	50.4	0	60.1	-0.8	66.8	-3.9	75.7	+2.0

\*For number of days missing see monthly report.  
1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4.  
2 Mean of 8 a. m. + 8 p. m. ÷ 2.

Monthly and Annual Mean Temperature for the Year 1897, with Departures from the Normal—Continued.

Stations.	August.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
Altoona, .....	67.2	-3.3	64.2	-0.6	54.3	+3.1	40.2	+1.0	32.9	-0.9	49.6	-1.1
Aqueduct, .....	71.2	-0.9	66.2	+0.3	55.6	+3.4	44.4	+2.8	36.4	+2.1	53.2	+0.8
Blooming Grove, .....	66.0	-1.4	61.4	+1.0	.....	.....	.....	.....	.....	.....	.....	.....
Cannonsburg, .....	70.8	+0.5	*68.8	+6.2	60.9	+8.6	*46.1	+6.4	37.4	+5.9	53.8	+3.3
Carlisle, .....	70.4	-2.3	*66.8	.....	54.6	+2.5	42.4	+1.9	34.2	+3.0	51.9	.....
Cassandra, .....	64.2	.....	60.8	.....	52.1	.....	40.2	.....	32.2	.....	48.2	.....
Centre Hall, .....	65.8	.....	63.0	.....	52.4	.....	40.6	.....	31.1	.....	48.6	.....
Chambersburg, .....	68.3	-3.7	*69.8	.....	*52.8	+2.4	41.4	-0.3	33.8	-0.1	50.6	.....
Coatesville, .....	72.4	+0.9	67.2	+2.6	56.0	+5.4	43.8	+2.4	35.4	+1.7	52.8	+1.5
Confluence, .....	68.2	.....	63.6	.....	53.0	.....	40.0	.....	32.3	.....	49.8	.....
Coopersburg, .....	70.4	-0.6	66.4	+1.8	56.4	+4.5	44.8	+3.9	37.4	+3.8	52.6	+1.8
Derry Station, .....	68.8	.....	*64.6	.....	56.2	.....	*44.0	.....	33.4	.....	.....	.....
Drifton, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dunmore, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dushore, .....	63.4	.....	.....	.....	.....	.....	38.0	.....	29.6	.....	.....	.....
Dyberry, .....	64.6	-0.4	58.6	+0.3	49.1	+2.9	36.4	+1.4	27.6	+2.3	45.6	+1.4
Easton, .....	70.0	-1.7	63.7	-1.4	54.4	+2.7	42.2	+1.0	33.8	+1.6	51.1	+0.6
Edinboro 1, .....	64.4	-1.7	*65.1	+3.4	54.2	+6.6	37.9	+3.1	28.6	+0.3	47.0	+0.6
Emporium, .....	65.4	-3.3	61.8	-0.8	52.0	+3.0	40.6	+1.1	32.1	+0.5	48.6	-0.6
Erie, .....	66.6	-2.4	64.0	0	56.0	+4.0	41.6	+0.6	32.4	+0.4	48.6	-0.2
Everett, .....	66.8	.....	*63.5	.....	*53.4	.....	*41.0	.....	.....	.....	.....	.....
Forks of Neshaminy 1, .....	72.0	-0.1	65.3	+0.1	54.8	+2.7	*44.8	+2.0	36.2	-1.7	53.1	+0.8
Franklin, .....	66.8	+2.1	61.4	+4.5	53.7	+8.0	42.0	.....	32.2	.....	48.6	.....
Gettysburg, .....	.....	.....	68.8	+5.4	.....	.....	.....	.....	.....	.....	.....	.....
Gramplan, .....	66.5	-1.3	62.1	+1.3	52.6	+4.9	38.4	+3.1	30.0	+3.2	47.7	+1.4
Greensboro, .....	.....	.....	.....	.....	56.8	.....	42.3	.....	36.2	.....	.....	.....
Greenville, .....	64.0	-1.9	58.8	-1.1	51.1	+4.3	40.2	+1.7	33.5	-0.4	.....	.....
Hallstead, .....	*66.9	.....	60.4	.....	50.6	.....	*38.6	.....	*29.6	.....	47.9	.....
Hamburg, .....	71.6	-1.2	67.0	+0.8	56.8	+4.0	44.0	+3.2	35.7	+1.8	53.0	+1.8
Hamlington, .....	67.4	+0.2	62.4	+0.3	52.6	+5.2	38.5	+1.1	29.3	+0.3	47.6	+0.7

Monthly and Annual Mean Temperature for the Year 1897, with Departures from the Normal—Continued.

Stations.	August.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
Harrisburg, .....	71.0	-1.0	66.8	+0.8	56.1	+4.1	43.4	+0.4	35.6	+1.6	52.3	+0.6
Hawley, .....							42.8		32.4			
Holidaysburg, .....	*67.9	-1.3	*64.0	+0.8	54.9	+6.5	42.0	+1.9	*34.0	+0.4	50.6	+0.8
Huntingdon, .....	68.4	-2.2	*64.3	+0.5	52.6	+3.3	*42.0	+1.2	36.0	+2.2	51.0	+1.0
Indiana, .....	68.0	-1.7	66.2	+5.6	59.0		44.6	+3.1				
Irwin, .....												
Johnstown, .....			64.5	+0.2	55.4	+3.6	42.6	+2.9	34.7	+0.1		
Kennett Square, .....	71.7	+0.6	66.9	+1.7	56.6	+5.0	44.6	+2.3	35.6	+1.2	52.8	+1.7
Lancaster, .....												
Lawrenceville, .....	66.4		60.0		*50.0		39.0		30.8		48.3	
Lebanon, .....	70.0	-1.1	65.7	+1.5	54.6	+3.8	42.7	+1.6	34.4	+1.0	51.4	+1.0
Le Roy, .....	66.2	-2.7	60.8	-1.2	52.0	+4.2	37.0	+0.4	28.3	-0.7	46.4	-0.4
Lewisburg, .....	68.8	-1.8	64.6	+2.7	53.4	+4.1	41.5	+3.0	33.4	+4.0	50.4	+1.5
Lock Haven, .....	65.2	-6.0	66.2	+3.1	55.8	+5.8	42.8	+2.2	34.2	+1.9	51.5	+1.6
Lycippus, .....	69.5	-1.2	66.4	-0.6	57.8	+4.2	43.2	+1.9	33.6	-1.7	51.7	+0.3
Mauch Chunk, .....	69.4	-0.2	64.1	+0.2	53.2	+3.6	40.7	+0.9	32.4	+1.1	50.0	+0.7
Philadelphia (a), .....	74.3	+0.3	68.4	+0.4	58.2	+2.2	45.9	+0.9	38.1	+2.1	54.6	+1.1
Philadelphia (b), .....	73.7	-1.3	68.6	-1.3	58.3	+2.3	46.2	+1.6	37.6	-0.3	54.6	-0.2
Pittsburgh, .....	70.5	-2.5	68.0	+2.0	59.0	+4.0	45.0	+3.0	37.0	+1.0	53.2	+0.8
Pottstown, .....	72.2	-1.2	66.8	+0.3	56.9	+4.1	44.3	+0.5	36.2	+0.8	53.5	+0.8
Quakertown, .....	69.4	-0.1	63.6	+0.3	*52.6		41.4	+1.0	32.8	+1.3	50.1	
Reading 2, .....	70.4	-2.4	63.8	-1.8	53.6	+0.8	42.4	-0.1	34.4	+0.7	51.4	-0.8
Reedsville, .....					52.6		41.9		32.6			
Renova, .....	67.8		63.7		53.7		41.6		33.5		50.3	
Saegerstown, .....	64.0	-2.8	60.4	-1.2	53.6	+5.3	39.5	+2.7	29.2	+0.4	47.0	+0.5
Scranton, .....	68.0		62.5		53.5		40.2		31.8		49.2	
Sellinsgrove, .....	69.6	-2.1	63.6	-0.2	53.4	+3.5	41.2	0	35.0	+2.6	51.2	+0.6
Shingle House, .....	62.7		60.4		*50.5		39.7		29.9		46.6	
Skippack, .....												
Smethport, .....	63.0	-2.5			50.4	+3.9	38.1	+2.2	28.7	+0.1		

Somerset, .....	63.8	-3.0	63.5	+3.7	52.4	+5.2	40.0	+1.5	31.9	+2.9	47.5	+0.2
South Bethlehem, .....	72.6	0	66.6	+1.0	56.6	+4.7	44.6	+0.9	34.0	-1.5	52.6	+1.0
South Eaton, .....	66.8	-1.4	61.6	+0.6	52.6	+3.7	41.0	+4.5	31.8	+0.5	48.7	+0.9
State College, .....	66.0	-2.5	63.7	+1.5	53.6	+4.9	40.0	+0.9	31.8	-0.3	48.9	+0.3
St. Marys, .....	63.8	.....	61.0	.....	*51.4	.....	38.7	.....	28.8	.....	.....	.....
Swarthmore, .....	72.2	-0.1	66.1	+0.2	56.2	+3.6	43.6	+0.2	35.4	0	.....	.....
Swiftwater, .....	64.5	.....	59.4	.....	51.8	.....	37.3	.....	29.8	.....	46.4	.....
Towanda, .....	66.4	.....	62.1	.....	51.8	.....	40.3	.....	31.8	.....	48.6	.....
Unlontown, .....	68.4	-2.9	63.4	-2.8	*54.3	.....	42.2	-1.4	36.3	-1.0	.....	.....
Warren, .....	63.9	.....	61.1	.....	.....	.....	.....	.....	29.2	.....	.....	.....
Wellaboro, .....	64.7	+0.8	59.6	+1.1	51.0	+3.1	39.6	+2.8	31.4	+2.0	46.9	+0.8
West Chester, .....	71.8	+0.1	66.7	+2.8	56.5	+2.8	43.7	+1.2	35.0	+1.6	52.5	+1.0
Westtown, .....	.....	.....	*64.8	.....	55.0	+3.3	42.6	+0.6	*31.7	.....	.....	.....
White Haven, .....	66.0	.....	60.7	.....	51.6	.....	38.3	.....	30.6	.....	47.1	.....
Wilkes-Barre, .....	69.8	+0.7	64.1	+1.9	54.0	+4.3	41.6	+2.0	33.0	+2.2	51.0	+1.8
Williamsport, .....	67.1	-1.7	63.0	+0.7	53.5	+4.1	42.2	+4.9	33.4	+3.5	50.0	+1.8
York, .....	70.0	-2.2	65.0	-0.8	55.0	+3.7	42.2	+0.3	34.9	+0.5	51.7	+0.2

\*For number of days missing see monthly report.  
1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4.  
2 Mean of 8 a. m. + 8 p. m. + 2.

Monthly Maximum Temperatures for the Year 1897, with Dates.

Stations.	January.		February.		March.		April.		May.		June.	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
Altoona.	54	1	58	21	70	20	83	25	84	9	87	20
Aqueduct.	63	4	59	21	67	21	90	25	83	20	96	25
Blooming Grove.	52	4	42	21	60	30	80	25	81	9	84	24
Cannonsburg.	74	3	62	17	72	30	83	24	82	23	90	24
Carlisle.	64	4	51	28	70	21	88	25	82	20	95	30
Cassandra.	56	4	52	21	66	20	77	25	78	23	83	30
Centre Hall.	56	5	50	21	66	20	83	25	79	9	84	30
Chambersburg.	65	4	49	21	69	21	86	24	81	20	92	30
Coatesville.	60	4	56	18	75	22	87	24	84	10	96	30
Confluence.	72	5	56	18	70	21	83	25	83	10	90	24
Coopersburg.	58	4	56	21	67	30	83	25	78	10	88	30
Derry Station.	61	4	.....	.....	74	21	84	26	84	9	89	16
Drifton.	53	4	45	22	62	23	81	26	79	19	.....	.....
Dunmore.	58	4	51	4	67	23	85	25	82	20	89	24
Dushore.	.....	.....	64	4	59	22	91	25	80	20	87	24
Dyberry.	54	4	46	17	61	23	83	25	78	19	85	29
Easton.	55	4	47	18	66	22	82	25	80	10	88	30
Edinboro.*	52	3	43	17	60	22	72	24	75	23	84	24
Emporium.	59	4	51	17	69	20	80	24	83	9	88	24
Erle.	62	3	47	17	60	20	76	22	79	9	81	23
Everett.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	87	30
Franklin.	60	3	50	17	68	30	81	29	82	9	89	24
Gettysburg.	64	5	58	19	72	21	92	25	.....	.....	96	30
Grampian.	58	4	48	17	68	20	80	25	80	9	85	24
Greensboro.	65	2	63	17	73	20	86	29	87	23	95	24
Greenville.	.....	.....	48	17	66	30	78	24	80	9	93	30
Hallstead.	57	4	50	17	63	22	82	25	80	9	.....	.....
Hamburg.	59	4	48	18	70	30	88	25	82	10	98	30
Hamlington.	52	4	45	14	58	23	81	25	77	9	82	24
Harrisburg.	61	4	48	18	66	21	84	25	79	20	91	30
Hawley.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Helldaysburg.	59	4	61	21	74	30	85	25	87	9	93	30

Huntingdon, .....	60	36	14	73	20	86	25	87	28	90	30
Indiana, .....	67	67	22	71	8	79	29	79	19	85	24
Irwin, .....		65	21								
Johnstown, .....	62	55	17	72	20	83	25	83	20	88	30
Kennett Square, .....	68	55	21	70	22	86	25	80	10	93	30
Lancaster, .....	60			69	22	85	25	81	8		
Lawrenceville, .....	57	52	17	68	22	81	25	82	9	88	24
Lebanon, .....	61	47	18	67	30	86	25	79	20	96	30
Le Roy, .....	55	50	17	59	22	84	25	78	20	83	24
Lewisburg, .....	60	47	6	68	30	85	25	80	20	92	30
Lock Haven, .....	61	56	17	74	30	90	25	88	9	94	30
Lycippus, .....	66	56	18	68	22	80	30	81	24	89	25
Mauch Chunk, .....	58	51	21	70	23	87	25	84	10	90	30
Philadelphia (a), .....	61	53	18	68	22	85	25	82	10	91	30
Philadelphia (b), .....	61	56	21	67	22	84	25	82	10	92	30
Pittsburgh, .....	60	61	17	70	22	81	24	81	23	88	30
Pottstown, .....	60	50	17	68	22	89	25	83	9	93	30
Quakertown, .....	57	53	21	68	22	84	25	82	10	90	30
Reedsville, .....											
Renova, .....	62	55	17	70	20	85	25	87	9	88	30
Saegertown, .....	61	49	11	65	20	79	24	82	9	90	24
Scranton, .....	58	47	17	63	23	85	25	81	9	87	24
Sellinsgrove, .....	56	51	21	67	30	87	25	80	11	92	30
Shingle House, .....	56	50	17	68	22	80	22	82	8	86	24
Skippack, .....	60	55	21	70	22	84	25	81	10	91	30
Smethport, .....	57	48	17	68	22	78	25	80	9	85	24
Somerset, .....	50	52	21	68	30	78	24	79	9	84	24
South Bethlehem, .....	56	52	19	63	22	85	25	80	21	88	30
South Eaton, .....	57	49	16	64	22	84	25	78	9	83	20
State College, .....	59	54	17	70	20	83	25	81	9	87	30
St. Marys, .....	55	48	17	65	20	76	29	80	9	85	24
Swarthmore, .....	59	52	18	68	22	82	26			91	30
Swiftwater, .....		48	21	61	23	82	25	78	10	81	30
Towanda, .....	58	52	17	63	22	83	25	81	9	87	24
Uniontown, .....	68	60	22			81	25	80	20	89	30
Warren, .....	59	46	18	67	21	81	30	81	9	87	24
Wellsboro, .....	64	56	17	65	22	82	25	78	9	85	24
West Chester, .....	58	52	21	67	22	83	25	80	10	91	30
Westtown, .....	57	51	21	66	22						
White Haven, .....	54	46	20	61	23	83	25	79	9	88	25
Wilkes-Barre, .....	61	51	17	68	30	87	25	84	9	91	25
Williamsport, .....	60	49	6	64	20	85	25	80	19	87	30
York, .....	62	49	17	69	21	85	25	80	10	93	30

\*Extremes of temperature from observed readings.

Monthly Maximum Temperatures for the Year 1897, with Dates.—Continued.

Stations.	July.		August.		September.		October.		November.		December.	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
Altoona, .....	94	10	91	4	96	16	88	16	86	20	61	11
Aqueduct, .....	103	6	94	4	98	10	95	16	69	2	63	11
Blooming Grove, .....	97	10	86	4	90	10						
Cannonsburg, .....	98	5	94	4	96	11	95	15	76	4	73	9
Carlisle, .....	96	10	91	4	99	10	88	16	67	4	64	11
Cassandra, .....	91	5	86	4	88	15	81	16	61	21	58	10
Centre Hall, .....	88	10	84	4	90	16	87	15	62	4	54	11
Chambersburg, .....	95	10	89	14	94	11	88	16	66	2	67	11
Coatesville, .....	95	10	90	14	99	10	94	16	73	16	68	11
Confluence, .....	99	5	93	5	97	17	86	17	69	27	63	10
Coopersburg, .....	93	10	85	14	95	16	88	1	72	4	67	10
Derry Station, .....	103	6	95	3	98	15	88	16	69	27	63	10
Drifton, .....												
Dunmore, .....	102	5										
Dushore, .....	95	10	85	4	90	10	90	1	65	2	60	10
Dyberry, .....	94	10	86	4	91	10	87	16	66	4	62	10
Easton, .....	94	10	88	23	90	10	83	16	64	2	61	11
Edinboro,* .....	99	4	83	4	88	9	80	15	60	4	54	10
Emporium, .....	95	5	86	4	90	16	85	15	65	5	61	10
Erie, .....	94	10	84	14	88	9	82	14	66	4	61	10
Everett, .....	89	3	90	4	93	15	88	16	67	26		
Franklin, .....	100	5	89	3	92	9	84	15	68	16	60	10
Gettysburg, .....					95	3						
Grampian, .....	94	5	92	3	90	16	82	16	66	5	60	10
Greensboro, .....			97	4	97	16	87	16	70	4	65	9
Greenville, .....			87	4	87	10	76	16	65	3	60	9
Hallstead, .....	95	4					84	16	64	4	61	11
Hamburg, .....	96	9	88	31	91	10	89	16	67	3	60	11
Hamlington, .....	101	6	91	4	97	10	82	16	65	16	58	11
Harrisburg, .....	91	10	85	4	88	10	86	16	68	2	63	11
Hawley, .....	98	6	87	14	95	10			69	4	66	10
Holidaysburg, .....	97	10	92	4	100	16	91	16	70	5	67	9

Huntingdon, .....	95	10	91	4	98	10	88	5	70	6	66	12
Indiana, .....	95	5	88	5	92	10	84	16	72	4	.....	.....
Irwin, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Johnstown, .....	99	5	.....	.....	96	16	86	16	68	26	64	10
Kennett Square, .....	93	10	89	5	97	10	92	16	71	16	63	10
Lancaster, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lawrenceville, .....	100	9	89	5	89	9	84	16	61	5	60	11
Lebanon, .....	98	10	89	30	97	10	90	1	67	2	65	11
Le Roy, .....	95	5	85	3	88	10	81	16	65	4	59	10
Lewisburg, .....	96	10	93	4	96	10	89	16	69	2	63	11
Lock Haven, .....	98	10	94	4	96	10	87	16	70	4	61	10
Lycippus, .....	98	5	91	4	94	17	85	16	70	6	62	11
Mauch Chunk, .....	100	10	90	4	95	10	89	16	70	4	62	11
Philadelphia (a), .....	94	10	90	3	96	10	88	16	71	16	63	10
Philadelphia (b), .....	94	10	89	14	96	10	89	16	70	16	63	10
Pittsburgh, .....	99	5	91	3	96	18	87	15	69	4	65	9
Pottstown, .....	96	10	89	14	96	10	88	16	70	16	64	11
Quakertown, .....	96	10	87	14	96	10	88	20	68	16	63	11
Reedsville, .....	.....	.....	.....	.....	.....	.....	83	16	64	2	60	11
Renova, .....	95	10	90	4	93	16	86	16	66	5	63	10
Saegerstown, .....	99	5	90	4	92	16	89	2	69	3	59	10
Scranton, .....	96	10	91	4	95	10	87	16	65	4	67	11
Selinsgrove, .....	95	10	90	5	95	11	80	1	68	1	62	21
Shingle House, .....	98	5	89	4	96	9	86	15	70	5	62	10
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Smethport, .....	.....	.....	88	4	.....	.....	85	15	67	4	61	10
Somerset, .....	93	5	85	4	95	15	86	16	68	5	58	11
South Bethlehem, .....	96	11	89	15	93	10	88	1	72	1	59	2
South Eaton, .....	91	10	86	15	90	10	87	16	68	2	63	11
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Swiftwater, .....	89	10	81	4	86	10	80	16	68	3	57	11
Towanda, .....	96	5	88	4	94	16	87	16	67	2	65	11
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White Haven, .....	94	10	87	4	92	10	84	16	66	16	62	11
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Williamsport, .....	98	10	88	1	91	10	86	16	66	2	61	11
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\*Extremes of temperature from observed readings.





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